



**Government Acquisition  
Through  
Electronic Commerce  
(GATEC)  
System Administrator's Guide**

**Doc Id:** TISP940103

**Rev Id:** Release 2

**Release Date:** 1 August 1994

Prepared for:

Aeronautical Systems Center  
Operational and Central Support  
Contracting Division  
Air Force Materiel Command  
Wright-Patterson AFB, Ohio

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Work performed under the auspices of the U. S. Department of Energy by Lawrence Livermore National Laboratory under Contract W-7405-Eng-48.

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## SECTION 1 Introduction

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The purpose of this Guide is to provide the necessary information to permit the GATEC Systems Administrator to successfully understand and use the administrative features of the GATEC application. This document assumes that the PC-based software has been correctly installed on each PC, that the GATEC software has been correctly installed on the Site Hub and that the necessary network connectivity between the Lead Buyer's PC and the Site Hub has been established. [For details on the use of the GATEC application, consult the *GATEC Buyer User's Guide*.]

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### 1.1 Identification

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This System Administrator User's Guide supports release 2.4.1 of the GATEC application. The GATEC application was developed for the Aeronautical Systems Center, Operational and Central Support Contracting Division, Air Force Materiel Command at Wright-Patterson AFB by staff of the Technology Information Systems Program (TISP) at the Lawrence Livermore National Laboratory (LLNL), operated by the University of California for the Department of Energy.

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### 1.2 Project Overview

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Lawrence Livermore National Laboratory (LLNL), working in close conjunction with the Operational and Central Support Contracting Division at Wright-Patterson AFB, developed an electronic contracting system for use by Government agencies. GATEC uses EDI technology (ANSI X12 transactions enveloped in *smtp* email) to send Request for Quotes (RFQs) to vendors, receive Quotes from vendors and to transmit Awards and Award Summary information back to vendors. The flow of information goes from existing standard procurement systems through a local on-site computer for translation, then over the Internet to the LLNL-VAN communication hub computer for passing on to multiple Value Added Networks (VANs) and then on to vendors. The return routing is reversed. GATEC uses ANSI X12 standards

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and connects to VANs using either *smtp* or X400 enveloping standards. At the time of award, the pertinent award summary information is emailed to the VANs for public dissemination.

The pilot has been operational since October 1992 and has achieved documented process improvements. Refinements to the system are being made and it is ready to be exported to other sites. Further enhancements are planned in phases and include contract administration, small dollar service procurements, user access to an item description database and inclusion of large dollar solicitations, specifications and contracts.

The modular development of GATEC allows the vast majority of the system to work with other agency systems with minimal software development needed. It is the only DoD EDI system in operation that uses national commercial EDI standards encapsulated in standard Email, multiple value added networks, communicate all solicitation and award actions, and work with multiple standard procurement systems thereby allowing "one face to industry".

To date, GATEC use has resulted in a documented significant reduction in processing time and an increase in productivity. There are both direct and indirect savings resulting from the use of EDI. These process improvements and savings accrue for all parties involved. It is important to note that this is only one area of the business cycle where EDI and Electronic Commerce (EC) can provide benefits. GATEC is helping to make the vendor base EDI-capable. The use of commercially accepted standards and off the shelf equipment with VAN provided software allows them to use the same methods to communicate with their other trading partners.

The overall goal of the GATEC project was to implement the functional capabilities needed to move government commodity procurement functions to electronic commerce. The specific first year goal was to implement electronic commerce in 1993 by processing the majority of the ASC Wright-Patterson commodity procurements under \$25,000 and to develop ASC Wright-Patterson into the DoD pilot site for electronic procurement using the Base Contracting Automated System (BCAS) procurement system.

The GATEC project is the first procurement project to implement an end-to-end solution for the Procurement function. The GATEC Project, jointly executed by Wright-Patterson and LLNL, is an important first step towards solving the labor-intensive procurement function of issuing RFQs, gathering quotations and making awards.



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### 1.3 Document Overview

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This System Administrator's Guide was written for Release 2.4.1 of the LLNL GATEC application. It explains how a Systems Administrator performs administrative functions (such as adding new vendors, determining the status of BCAS) and can troubleshoot certain operational aspects of the GATEC system.

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#### 1.3.1 Document Organization

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Throughout this guide representative examples have been included to guide the Lead Buyer through the GATEC Lead Buyer features. The GATEC Lead Buyer User's Guide is made up of the following sections:

- The Table of Contents provides an outline of this guide.
  - The Introduction describes the GATEC project, this guide and the document conventions used.
  - Referenced Documents provides a list of related and referenced documents.
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#### 1.3.2 Document References

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References to other documents from this guide are indicated by the [].

[REF001] System and Network Administration, Sun Microsystems, Inc.

[REF002] Optical Disk Library System Administrators Guide, R-SQUARED Inc.

[REF003] Optical Disk Library System Models 60 and 100 Operators Guide, R--SQUARED Inc.

[REF004] IFS-INFINITY File System User's and Reference Manual, R--SQUARED Inc.

[REF005] SunOs Reference Manual., Microsystems, Inc.

[REF006] Windows User's Guide, Microsoft, Inc.

[REF007] EC-EDI Configuration Management, TIS Program,  
Lawrence Livermore National Laboratory

[REF008] ORACLE for Sun 4 Installation and User's Guide,  
ORACLE Corporation.

[REF009] ASCENT Gateway Programmer's Guide, Control Data  
Corporation.

[REF010] UNIX Power Tools, Peek, O'Reilly, Loukides.

[REF011] Programming Perls, Bentley.

[REF012] ORACLE IUG, ORACLE Corporation.

[REF013] SQL\*Plus User's Guide and Reference, ORACLE  
Corporation.

[REF014] GATEC Lead Buyer's User's Guide, TIS Program,  
Lawrence Livermore National Laboratory.

[REF015] GATEC Buyer's Guide, TIS Program, Lawrence  
Livermore National Laboratory.

[REF016] GATEC Internal Software Description, TIS Program,  
Lawrence Livermore National Laboratory.

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## SECTION 2 Environmental Specification

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This section specifies the hardware and software configuration for the GATEC system.

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### 2.1 Hardware Specification

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The GATEC series system is comprised of the following hardware:

(1 or 2) SPARC-10 51's with a minimum of 64M internal memory, 4 G external/internal hard disk capacity, 5 *G exobyte* tape unit, and one 3 1/4 inch disk drive. The computer is connected to an Ethernet (using TCP/IP protocol). The site's legacy procurement system (BCAS for GATEC Series) must also be connected to this Ethernet. Other than running TCP/IP there are only two other requirements for the BCAS system. First, it must be running the current BCAS software release. Second it must have three (GATEC) WANG command procedures installed on it. Installation of these files on the WANG is described in Section 3.7. Installation and operation of the Sun SPARC 10 computer on an Ethernet network is discussed in the *Sun System and Network Administration* [REF001] manual.

In the two SPARC configuration one machine is known as "the Database Machine," while the other is typically called "the Transport Machine." In the one SPARC configuration, both the database and transport operations are combined onto one machine.

Some configurations will make use of an optical disk tower to facilitate on-line long term storage of data. For this application a minimum of 2 G of hard disk will be needed to support the R SQUARED software which drives/supports the optical disk tower. Consult the following R SQUARED documents for details of the connection and operation of a disk tower system on a SPARC 10 machine. *Optical Disk Library System Administrators Guide* [REF002], *Optical Disk Library System Models 60 and 100 Operators Guide* [REF003], *IFS-INFINITY File System User's and Reference Manual* [REF004].

IBM-PC 486 clone with 8M internal memory, one 3 1/4 inch high

density disk drive, two serial com ports, and a minimum 250 MB hard drive. Dedicated serial or modem connection to concentrator annex facility which can facilitate Telnet session to SPARC.

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## 2.2 Software Specification

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The SPARC machine(s) should be running version 4.1.3 of the Sun operating system. The operating system is discussed at length in the Sun *SunOs Reference Manual*. [REF005].

The IBM-PC should be running Windows version 3.1. The Windows application is discussed in Microsoft's *Windows User's Guide* [REF006].

The SPARC-10(s) will run 3 types of software. COTS, public domain, and LLNL developed (i.e. government owned). The government owned software can be divided into two categories, "GATEC specific software," and GATEC support software. The GATEC support software was not developed for the GATEC project, but is still used to accomplish some important support tasks. The directory structure for the SPARC machines is documented below. The files which are contained in each directory, are also noted. The two SPARC machine configuration is discussed first.

In the two SPARC configuration, one SPARC is known as the "Database Machine." This is because the GATEC ORACLE database is established on that machine. The other SPARC is known as the "Transport Machine" because X12 transactions are sent and received on that platform.

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## SECTION 3 GATEC Installation and Configuration

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This section provides the System Administrator with the information required to successfully install and configure the GATEC system.

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### 3.1 Site Hub Software

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Before the GATEC software can be installed, the directory structure must exist on the host machines. If installation is occurring via tape dissemination, the operator should mount the exobyte drive, insert the distribution tape and type the following command:

```
tar -xvf gatec2Install
```

Next, the operator should create a user known as gatec2. This user should have full privileges for directory creation throughout the system. After "su"-ing to gatec2, the gatec2Install script should be executed. It will first prompt the user with a question asking whether the install is being made on the database machine, transport machine, or whether the install is being made on just a one machine configuration. Once response is input, the script will establish the GATEC directory structure, and copy the appropriate files into each directory. After this is completed, the script will finish execution. If the site is using two SPARC-10's, before termination, the user will be reminded to dismount the exobyte, and re-mount it from the other machine.

The installation procedure on the other SPARC will be exactly the same as outlined above.

The only other software which needs to be installed is the ORACLE software. This needs to be done on the database machine (in the two SPARC configuration). The operator should follow the ORACLE installation procedure as outlined in Chapter 3 of the *ORACLE IUG* (Installation User Guide) [REF012]. The ORACLE software should be installed under the /home directory.

---

### 3.2 Site PC Software

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Insert the 3 1/4 inch PC dissemination disk labeled "GATEC PC 1 of 2" into the 3 1/4 inch drive. Run the program installGatec.exe. The program will prompt the user for the name of the directory to create that will hold the GATEC PC files. The default name is GATEC2. If that name is acceptable, simply hit carriage return at the prompt. At some point, the user will be asked to eject disk 1 and insert disk 2 to continue the install. The install program will also ask whether the installation is being done on the lead buyer's PC. Once the install is complete, a group (with the name of the directory containing the GATEC files) will be visible on the screen. For a regular buyer two icons will be visible, one known as setup, the other the GATEC client. For the Lead Buyer four icons will be visible, setup, the GATEC application, the lead buyer application, and the system parameters application.

Before the GATEC client can be run, the setup program must be executed to setup the PC com port with the proper settings. To execute setup double click the mouse on the icon. The settings should be:

Speed:	9600
Port:	com2
Parity:	None
Connection Type:	By Network Server (typical)
Data bits:	8
Stop bits:	1

After these settings have been made, click on the SAVE button, then the DONE button. This information will be written out to a file named com.cfg file. When GATEC is operated via modem connection, the connection type should be changed to indicate "By Modem."

---

### 3.3 Installing Buyers

---

Each buyer must have an account on the SPARC-10 machine before they can use their PC's to log onto the GATEC system. In the two SPARC configuration they must have an account on the database machine. The account name for a buyer must be their corresponding BCAS bsp. Refer to the *SunOs Reference Manual* [REF005] for details on installing new users.

Once the user's have been installed the /etc/passwd files must be

edited to change the default shell that the user's should execute. A typical line from the passwd file for buyer g1f might look like,

```
g1f:##g1f:1018:1000:Judy Redmon:/home/userdirs/gatec/g1f:/bin/sh
```

It should be modified to execute /home/gatec2/bin/serialserver.dui; i.e.,

```
g1f:##g1f:1018:1000:Judy Redmon:/home/userdirs/gatec/g1f:/home/gatec2/bin/serialserver.dui
```

---

### 3.4 Configuring the Database

---

Before the GATEC application can be run, the usermanagerdefaults table in the database must be configured. Values can be placed in this table by using SQLPLUS. The parameters which must be specified are indicated below:

SITEADDRESS	(e.g. F33601)
ESTIMATEDPRICELIMIT	25000
LARGEBUSINESSPERCENT	
ONLINEDAYS	Y
SENDTOPUBLIC	
PURCHASEORDERACKDAY	
AUTOACKHOURS	120
MAXIMUMPRIORITY	3
NOTIFICATIONADDRESS	gatecmgr@<machine_name>,<other names>
ACKNOWLEDGE840	Y
ACKNOWLEDGE850	Y
ACKNOWLEDGE864	Y
USERSALLOWED	Y
MESSAGEOFTHEDAY	(e.g. "Hello GATEC users")
ACTIVESTATUS	1
STATUSDATE	
STATUSOPERATION	
STATUSORIGINATOR	

To deposit values in the table first start sqlplus:

```
sqlplus <login>/<login> <ret>
```

Recall your login name is determined when ORACLE is installed. sqlplus will respond with its prompt:

```
SQL>
```

The following commands will initialize the table:

```
update usermanagerdefaults set siteaddress = '<site_add>';
update usermanagerdefaults set estimatedpricelimit = 25000;
update usermanagerdefaults set sendtopublic = 'Y';
update usermanagerdefaults set autoackhours = 120;
update usermanagerdefaults set maximumpriority = 3;
update usermanagerdefaults set notificationaddress = '<email adds>';
update usermanagerdefaults set acknowledge840 = 'Y';
update usermanagerdefaults set acknowledge850 = 'Y';
update usermanagerdefaults set acknowledge864 = 'Y';
update usermanagerdefaults set usersallowed = 'Y';
update usermanagerdefaults set messageoftheday = '<message>';
update usermanagerdefaults set activestatus = 1;
```

The siteaddress is the dodac code for the site.

autoackhours tells the system to check on acknowledgments a specified number of hours after the x12 document is issued. Acknowledgments of 840's, 850's, and 864's can be monitored.

maximumpriority specifies the maximum priority of an RFQ which can be downloaded from BCAS.

notificationaddress is the email address to send no acknowledgment warnings to.

usersallowed can disable logins for all users.

Please consult the *ORACLE SQL\*Plus User's Guide and Reference* [REF013] manual for further details on sqlplus.

Next, the System Parameter application must be run to set the following parameters in the GATEC database,

GATEC Users (i.e. bsp codes corresponding to the user's installed, see Section 3.3)

Legal holidays for the current fiscal year.

Available GSA, and non-GSA award piin numbers.

Consult the *GATEC Lead Buyer's User's Guide* [REF014] for details on how to set these parameters.

In order to actually load the GATEC database with requisitions, two crons must be run from the /home/gatec2/bin directory. These



crons should be run under the gatecmgr account. The first cron to run is called getstmntship\_cron. This will download shipping, accounting, and vendor information into the GATEC database. Once getstmntship\_cron has finished, the getopr\_bsp\_cron3 should be run. This will actually download RFQ information into the database. After getopr\_bsp\_cron3 finishes, a buyer could log onto the GATEC system (using their bsp name and chosen password) and access the RFQ's downloaded. In order to keep the GATEC database up to date, with RFQs which have been recently entered into BCAS, the getopr\_bsp\_cron3 script is run as a cron 3 times a day (morning, noon, evening). The cron tab file can be found in /usr/spool/cron/crontab on the Database Machine.

---

### 3.5 Setting up Crons

---

The following scripts must be run as crons on the Database Machine (all files located in /home/gatec2/bin),

ck\_cron\_pl - Checks on overdue 850, 836, and 840 acknowledgments.

getopr\_bsp\_cron3 - Download new solicitations from BCAS.

putuploads\_cron - Upload award information to BCAS.

upload\_bcas\_item\_desc\_cron - Upload item description change information to BCAS.

upload\_bcas\_cancel\_award\_cron - Upload award cancellation information to BCAS.

daily - Close RFQs in GATEC database which have been open for a specified duration.

remoldfiles\_cron - cleans old files out of the /home/gatec2/tmp directory.

A crontab in /usr/spool/crontabs named gatecmgr (automatically installed during installation) will run all these crons except for remoldfiles\_cron. That cron is run by the gatec2 cron (also installed).

Only two files on the Transport Machine must be run as a cron (both files located in /home/gatec2/bin),

time\_in - Cleans /home/gatec2/tmp directory.

newsyslog - This cron will update the mail archive file nightly and

move it to the /home/archive/archive directory.

The crontab in /usr/spool/crontabs named root will run both crons.

---

## 3.6 Setting up Queues

---

Two types of queues are used by the GATEC system; UNIX printer queues and a public domain simple multi-user queuing system.

---

### 3.6.1 Printer Queues

---

One printer queue must be established on the Database Machine. The queue is known as *outbound*. This queue will pass 840, 850, 864, and 836 CDF files to the Transport Machine. In order to set this queue up the /etc/printcap file must be modified to include the following lines:

```
# Outbound translations
outbound|cdftox12to:\
:lp=:rm=gatec:rp=outbound:sd=/usr/spool/lpd/outbound:sh:sf:
```

A directory named *outbound* must also be created under /usr/spool/lpd.

Four printer queues must be established on the Transport Machine; *outbound*, *inbound*, *inbound2*, and *inbound3*. Each of the inbound queues can hold 1000 entries. *Inbound* overflow goes to *inbound2*, *inbound2* overflow goes to *inbound3*. In order to set these queues up the /etc/printcap file on the Transport Machine must have the following lines added to it:

```
# Inbound translations
inbound|x12tocdf:\
:lp=/home/gatec2/locks/inbound:if=/home/gatec2/bin/inbound:\
:sd=/usr/spool/lpd/inbound:sh:sf
#inbound backup incase we hit 1000 (sun limitation)
inbound2|x12tocdf2:\
:lp=/home/gatec2/locks/inbound2:if=/home/gatec2/bin/inbound:\
:sd=/usr/spool/lpd/inbound2:sh:sf
#inbound backup incase we hit 1000 (sun limitation)
```

```
inbound3|x12tocdf3:\
:lp=/home/gatec2/locks/inbound3:if=/home/gatec2/bin/inbound:\
:sd=/usr/spool/lpd/inbound3:sh:sf
# Outbound translations
outbound|cdftox12:\
:lp=/home/gatec2/locks/outbound:if=/home/gatec2/bin/outbound:\
:sd=/usr/spool/lpd/outbound:sh:sf
```

Directories names outbound, inbound, inbound2, and inbound3 must be created under /usr/spool/lpd.

---

### 3.6.2 Multi-User Queues

---

These queues are used for upload of award, item description, and cancel award information back to BCAS. Three queues need to be established. In order to establish these queues su to the gatec2 user and cd to the /home/bcas directory on the Database Machine. The following three commands must be executed:

```
qsetstatus bcasupload UP
qsetstatus bcasitem UP
qsetstatus bcascancel UP
```

---

### 3.7 Installing WANG Command Procedures

---

GATEC makes use of three (LLNL developed) WANG command procedures; namely, cpbcas, cpopr, cpitstk. These procedures are remotely executed through gateway procedures and help to accomplish download of BCAS OPR, accounting, vendor, shipping, item and nomenclature information to the SPARC. See Section 4.2.1 for further details. These files are on the 3 1/4 inch SPARC distribution disk labeled "GATEC WANG Procedures." They must be installed at vol333.g2wrpt on the WANG. To do this insert, the 3 1/4 inch disk into the SPARC drive and copy the files to /tmp. Once this is done, simply FTP the files to the vol333.g2wrpt location on the WANG.

---

### 3.8 Miscellaneous

---

The serialserver.dui file in the /home/gatec2/bin directory will need to have one line modified. This will specify the logical line printer

name of the printer the GATEC application will have access to. Recall the serialserver.dui file sets up the appropriate shell environment for the GATEC user. The line to change is shown below,

```
# set printer string
setenv GATEC_PRINT_STRING "/usr/ucb/lpr -Plp"
```

The printer name is specified after the -P option. In this example the printer name was "lp."

Next, the /etc/.authlist file must be modified with the correct logins and passwords that the BCASrunproc, BCASupload, BCASitemupload, and BCAScancelaward gateway scripts will use to log onto the BCAS system. Consult the *ASCENT Gateway Programmer's Guide* for further details [REF009] on modification of the gateway .authlist file. This will have to be done under superuser authority.

Finally, a user named gatecmgr needs to be installed on both SPARC-10 machines. A user named archive needs to be installed on the transport machine (in the two SPARC-10 configuration).

After this is completed, the GATEC buyers may log in using their PCs. The login name and password the GATEC application queries for on start up, is the login name and password set up in Section 3.3. Consult the *GATEC Buyer User's Guide* [REF0015] for details on using the GATEC system.

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## SECTION 4 Operations

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This section provides the System Operator with the information required to successfully operate the GATEC system.

The key elements of the GATEC system are shown in the following foldout. These elements are discussed in this section.

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### 4.1 Introduction

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The version 2 series GATEC application is designed to interface to a legacy procurement system and provide an environment that will allow buyers to engage in electronic commerce. Very simply the system facilitates the following activities:

- Access to legacy system's purchase requests
- Generation of RFQ and translation into a standard X12 (840) interchange
- The sending of the interchange data to a hub (where it is then distributed to VANs and subsequently vendors)
- The receiving of X12 (843) quotes and 864 text messages
- The generation of X12 (850) awards and X12 (836) award summaries
- The sending of the 850 and 836 interchanges to the hub
- The upload of award information back to the legacy system.

The system is comprised of five elements: interface to legacy system, (GATEC) user interface, (GATEC) database, inbound and outbound transport. Hub operations are also described.

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## 4.2 Interface to Legacy System

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One of the key components of the GATEC software is the interface with the legacy system. The interface to the legacy system comprises download of BCAS requisition information, download of BCAS shipping, accounting, and vendor information, upload of award information, upload of item description change information, and upload of award cancellation information.

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### 4.2.1 Downloading Data from BCAS to Site Hub

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Two UNIX cron scripts initiate the extraction of the BCAS data. The first script known as *getstmnship\_cron* (located in /home/gatec2/bin on the Database Machine), extracts statement, shipping, accounting, vendor address and accounting information. Each category of information is placed in its own file. In order to gain access to this information, *getstmnship\_cron*, makes use of another script named *getwangfiles* (also located in /home/gatec2/bin on the Database Machine). *getwangfiles* makes use of a special GATEC utility known as *cpbcas* (located at vol333.g2wrpt on the WANG, WANG files are referenced by volume, library, filename). *cpbcas* actually runs on the WANG. It converts WANG index format files into consecutive format files so they may be copied to a UNIX system via FTP. A gateway script is actually needed to remotely execute *cpbcas*. This script is referenced in *getwangfiles* and is named *BCASrunproc*. It too is located in /home/gatec2/bin on the Database Machine. After *cpbcas* accomplishes the conversion, *getwangfiles* uses a (Perl) script named *downloadch* (located at /home/gatec2/bin on the Database Machine) to FTP (i.e. move) files from the WANG to the /home/bcas directory. Referencing the files with their native WANG names would be awkward; thus, after FTP the *getstmnship\_cron* script converts their names to stmnt, ship, acctg, vadr.

Next, *getstmnship\_cron* tries to place the contents of these files into database tables. The sql files defining the statement, shipping, accounting, and vendor address data are named *Stmnt.sql*, *Ship.sql* and *Acctg.sql* and *Vadr.sql* respectively. These sql files are located at /home/gatec2/lib/sql on the Database Machine. In order to actually load the data into the created tables, four more command files are used; namely, *Ship.ctl*, *Stmnt.ctl*, *Vadr.ctl*, and *Acctg.ctl*. These files are located at /home/gatec2/lib/ctl on the Database Machine.

The *getstmntship\_cron* must be run before the second cron job, *getopr\_bsp\_cron3* is run. Actually *getstmntship\_cron* really isn't run as a cron job at all----although it could be one. Instead, it is executed when necessary by the system manager. This is because the contents of the tables it establishes do not change very much. An example of when *getstmntship\_cron* would have to be run (after it had been run initially) might be if an existing vendor changed an address or if a new vendor had been added.

The second cron job *getopr\_bsp\_cron3* (located at /home/gatec2/bin on the Database Machine), attempts to download open purchase requisitions from the BCAS system. It is run three times a day. When a requisition is placed into BCAS, the system assigns it to a buyer by a three character code known as BSP (for Branch, Section, Person) based on the stock class of the items in the requisition. A convention has been established that electronic buys will always have a branch code of G. Thus, only requisitions that have a BSP that begins with G will be downloaded into the GATEC database. There are also other criteria which may be used for download; namely, cost of item (items above \$25,000 need to be handled in another manner), priority of item (items that have a priority of 1 or 2 need to be handled in another manner). Also an item should not be downloaded if it already exists in the GATEC database.

*getopr\_bsp\_cron3* attempts to capture the entire OPR file on the WANG. To accomplish this *getwangfiles* is used again. However, this time it will run another utility known as *cpopr* (located at vol333.g2wrpt on the WANG). *cpopr* (like *cpbcas*) actually runs on the WANG. It converts WANG index format files into consecutive format files so they may be copied to a UNIX system via FTP. The same gateway script (*BCASrunproc*) is used to remotely execute *cpopr*. After *cpopr* accomplishes the conversion, *getwangfiles* (via the download script) uses FTP to move the file to the /home/bcas directory. As mentioned above, the file will have a very long name due to the WANG directory naming standard. Its name will be changed to OPR\_ALL.dat. Next, the contents of the OPR\_ALL.dat file will be placed in the table described by PreOpr.sql. PreOpr.sql is located in /home/gatec2/lib/sql on the database machine. The table is loaded with the sqlldr command using the file PreOpr.ctl as input (located in /home/gatec2/lib/ctl on the Database Machine). The table is loaded with entries that meet the criteria mentioned above.

Next a list of stock numbers is generated from the PreOpr table. Up to fourteen of these stock numbers will be passed to the Wang procedure *cpitstk* (via *getwangfiles*) to obtain the item and nomenclature files for the stock numbers. Once FTP'd, the file names are changed to ITEM\_ALL.dat, and NOME\_ALL.dat.

After the name changes, the content of ITEM\_ALL.dat and NOME\_ALL.dat are placed in database tables. Both these sql files are located in /home/gatec2/lib/sql on the database machine. After the tables are loaded via the Item.ctl, and Nomenclature.ctl (both located in /home/gatec2/lib/ctl on the Database Machine), the *readopr2* program is called to place the opr, item, and nomenclature information into the GATEC database. The *readopr* binary is located at /home/gatec2/bin on the Database Machine. Basically, an opr entry is examined, and the stocknumber is used as an index into the item and nomenclature tables; this data, along with the opr data is then placed into the Oracle database.

After *readopr2* finishes, *getopr\_bsp\_cron3*, repeats the above process for the next fourteen stock numbers, until all the item and nomenclature information has been obtained for the stock numbers in the PreOpr table

*readopr2* actually deposits data into several Oracle tables; specifically,

#### Acquisition

- 1) PurchaseReqNumberCol loaded with RequisitionNumber
- 2) AssignedBuyerCol loaded with BuyerCode
- 3) SiteIDCol loaded with the site id

#### Document

- 1) ReviewStatusCol loaded with "UI"
- 2) DocumentTypeCol loaded with "840"

#### Item

##### LineItem

- 1) FedStockClassCol loaded with StockNumber
- 2) QuantityCol loaded with Quantity
- 3) DocumentTypeCol loaded with "840"

#### Part

- 1) PartIdentifierCol set to "FS" (for Federal Stock Number) if the 4th and 5th digit is between 0 and 9. otherwise set to "SW."
- 2) PartNumberCol loaded with StockNumber
- 3) PartIdentifierCol loaded with "MG"

#### ReqForQuote

- 1) DeliveredByDateCol loaded with RequiredDeliveryDate
- 2) AmendedCol loaded with "N"



- 3) PurchaseReqNumberCol loaded with RequisitionNumber  
Commented out
- 4) QuoteReceivedByDateCol loaded with RequisitionReturnDate

#### RequestForQuoteLineItem

- 1) ItemDescription01Col to ItemDescription06Col loaded with data from item table; specifically Nomenclature01Col to Nomenclature06Col.
- 2) ItemDescription07Col to ItemDescription48Col loaded with data from nomenclature table; specifically Nomenclature07Col to Nomenclature48.
- 3) PurchaseReqNumberCol loaded with RequisitionNumber
- 4) FedStockClassCol loaded with Stock Number
- 5) QuantityCol loaded with Quantity
- 6) PartListIncludedCol loaded with "Y"
- 7) UnitPriceCol loaded with (EstimatedPrice/10000.0)
- 8) For values of SignalCode:

##### A

SolicitationLineItem ShipToSRANCol loaded with  
RequisitionNumber  
SolicitationLineItem BillToSRANCol loaded with  
RequisitionNumber

##### B

SolicitationLineItem ShipToSRANCol loaded with  
RequisitionNumber  
SolicitationLineItem BillToSRANCol loaded with  
SupplementalAddress

##### C

SolicitationLineItem ShipToSRANCol loaded with  
SupplementalAddress  
SolicitationLineItem BillToSRANCol loaded with blank

##### D

SolicitationLineItem ShipToSRANCol loaded with  
RequisitionNumber  
SolicitationLineItem BillToSRANCol loaded with blank

##### J

SolicitationLineItem ShipToSRANCol loaded with  
SupplementalAddress  
SolicitationLineItem BillToSRANCol loaded with  
RequisitionNumber

## K

SolicitationLineItem ShipToSRANCol loaded with  
SupplementalAddress  
SolicitationLineItem BillToSRANCol loaded with  
SupplementalAddress

## L

SolicitationLineItem ShipToSRANCol loaded with  
SupplementalAddress  
SolicitationLineItem BillToSRANCol loaded with blank

## M

SolicitationLineItem ShipToSRANCol loaded with  
SupplementalAddress  
SolicitationLineItem BillToSRANCol loaded with blank

9) ShipToZIPCol loaded with OrgZipCol from shipping table if...

### SolicitationLineItem

- 1) SolicitationNumberCol loaded with SolicitationNumber
- 2) LineItemCol loaded with LineItem (number)
- 3) FundCodeCol load with FundCode
- 4) ProjectTitleCol loaded with ProjectTitle (code)
- 5) SignalCodeCol loaded with SignalCode
- 6) SupplementalAddressCol loaded with SupplementalAddress
- 7) PriorityCol loaded with Priority

---

#### 4.2.2 Uploading Award Data from Site Hub to BCAS

---

Each day a cron script named *daily* (located in /home/gatec2/bin on the Database Machine) is executed. It will change the state of an open RFQ to closed if a system specified number of days have elapsed between the RFQ's issuance and the present day the *daily* script is running. If after viewing the bids on an RFQ, the buyer decides to award, the GATEC application generates a CDF (common data format, i.e. an ASCII flat file) file which can be used to generate an X12 850 (award). The output CDF filename is then placed on a bcasupload queue. Making an award also causes the generation of two other CDF files; specifically, a CDF which contains data needed to produce and X12 836 award summary document and a CDF which contains data needed by the BCAS system to award a requisition.

The cron script *putuploads\_cron* (located in `/home/gatec2/bin` on the Database Machine) uses many other scripts to update the BCAS database when a requisition is awarded. After checking to make sure that another copy of *putuploads\_cron* is not running, *putuploads\_cron* makes use of program *qstatus* (binary located `/home/gatec2/bin` on the Database Machine) to make sure the BCAS upload queue is up. Each item on the queue contains three filenames. The first is the name of the CDF (Common Data Format) file that contains award information which must be uploaded to the BCAS system. The second name is the CDF file that contains sufficient information to generate an X12 850 document. The third name is the CDF file that contains sufficient information to generate an X12 836 document. These two files are passed to the *outbound* process on the Transport Machine only if the BCAS award process is successful.

After the queue status verification, a loop is entered where items are taken off the queue. The loop is exited when queue is empty. The program *qpop* (binary located `/home/gatec2/bin` on the Database Machine) is used to remove items from the queue. After checking to make sure the file exists on the file system, the file that is to be uploaded is processed by the *seluploadcdf* (located at `/home/gatec2/bin` on the Database Machine) Perl script. *seluploadcdf* selects key fields from the CDF file and places them in a temporary file. It is then processed by another script, *cdf\_check* (located at `/home/gatec2/bin` on the Database Machine). *cdf\_check* does what its name implies; specifically, it verifies that the data in the file is in the correct format that BCAS expects. It first reads in a file named *cdf\_regexp*, located at `/home/gatec2/etc` on the Database Machine. This file contains the definitive list of regular expressions for CDF files. In other words it specifies all the parameters that should be specified in the CDF file and grammatically defines (e.g. a date is comprised of two digits, three alphanumeric characters and two more digits, etc) their content.

If the CDF check is successful, a gateway script known as *BCASupload* (located at `/home/gatec2/bin` on the Database Machine) is run. *BCASupload* logs onto BCAS over TCP and navigates its menus to get to the "priced purchase order award" form. It then fills out the screen based on the data in the BCAS upload CDF file.

If the upload of the information was successful, the 850 CDF file is placed on a printer queue known as "outbound", (via `lpr -Poutbound <filename>`). where it will be subsequently processed by the *outbound* script on the Transport Machine. The 836 CDF is also sent to outbound, but only after the 850. This is further described in Section 4.4 (transport section.)

If error conditions should occur during the execution of *putuploads\_cron*, two scripts are used to facilitate reporting. The first script *errtomgr* (located at /home/gatec2/bin on the Database Machine) places all error messages in a mail file and sends the mail to the GATEC manager. The second script *errtouser* (located at /home/gatec2/bin on the Database Machine), tries to send an the error message to the buyer associated with the transaction.

---

#### 4.2.3 Uploading Item Description Data from Site Hub to BCAS

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Any item description, part number, and manufacturer information that is modified by a buyer before issuing an RFQ is uploaded back to BCAS via the Bourne Shell script *upload\_bcas\_item\_desc\_cron* (located at /home/gatec2/bin on the Database Machine). When an RFQ is issued, the GATEC application writes a CDF file containing the modified item, part, and manufacture data and places the CDF filename on the *bcasitem* queue. *upload\_bcas\_item\_desc\_cron* takes item upload CDF filenames off this queue (using the *qpop* utility), insures the data in them is correct (using *selitemcdf* and *cdf\_check*), then passes the filename to the gateway script *BCASitemupload* (located at /home/gatec2/bin on the Database Machine). *BCASitemupload* navigates BCAS menus to arrive at the ITEM RECORD screen. Next, it places the item, manufacturer, and part number data into the appropriate positions on the screen, then commits the changes. Errors are reported to standard output, are noted by *upload\_bcas\_item\_desc\_cron*, then mailed to the gatecmgr. Error messages are mailed with the *errtomgr* and *itemerrtouser* (located at /home/gbateg2/bin on the Database Machine) Bourne Shell scripts.

---

#### 4.2.4 Uploading Award Cancellation Data from Site Hub to BCAS

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Any time a purchase order is canceled by a buyer using the GATEC application, the cancellation information is uploaded back to BCAS via the Bourne Shell script *upload\_bcas\_cancel\_award\_cron* (located at /home/gatec2/bin on the Database Machine). When award cancellation is committed by a buyer, the GATEC application writes a CDF file containing the cancellation details (obtained from the cancellation screen) and places that file on the *bcascancel* queue. An 850 and 836 CDF are also generated and their names are placed on the *bcascancel* queue at this time. *upload\_bcas\_cancel\_award\_cron* takes the cancel CDF filenames off this queue (using the *qpop* utility), insures the

data in them is correct (using *selicancelcdf* and *cdf\_check*), then passes the filename to the gateway script *BCAScancelaward* (located at */home/gatec2/bin* on the Database Machine). *BCAScancelaward* navigates BCAS menus to arrive at the MODIFICATION ACTION screen. Next, it places the cancel details onto this screen as well as the MODIFICATION RESULT, and NARRATIVE screens. If the cancellation information was successfully uploaded to BCAS, the 850 CDF file is placed on a printer queue known as "outbound", (via *lpr -Poutbound <filename>*). where it will be subsequently processed by the *outbound* script on the Transport Machine. This is further described in Section 4.4 (transport section.). Note that only one parameter in BEG segment of the 850 need be modified to change an 850 into an "850 cancellation." The 836 CDF is not used in this application.

Errors are reported to standard output, are noted by *upload\_bcas\_cancel\_award\_cron*, then mailed to the gatecmgr. Error messages are mailed with the *errtomgr* and *icancellertrouser* (located at */home/gbatec2/bin* on the Database Machine) Bourne Shell scripts.

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### 4.3 User Interface

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In order for a buyer to make use of the GATEC system, a PC (client) interface has been designed which communicates with the GATEC (server) application running on the SPARC platform. The PC interface runs under Microsoft Windows using the Boreland Object Windows Library (OWL [REF]). The PC interface is generic in the sense that it is not GATEC application dependent. It simply knows how to display communication objects which are passed to it from the server. These communication objects present data as well as provide a mechanism for data entry. The primary communication objects are widgets which contains views that can be comprised of forms, dialogs, labels, fields, text, toggle switches, selections, etc. Since both the client and application understand the communication objects, the client never need be recompiled when display objects are changed in the application (server). The physical layout of the communication objects on the PC screen is controlled via a text input file which is read by the client at start up.

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### 4.4 Transport

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Transport comprises managing the disbursement of X12 840 requisitions, X12 864 text messages, X12 997 acknowledgments, X12 850 awards, X12 836 award summaries, and X12 824 application advice to the Hub, as well as managing receipt of X12 843 bids, X12 864 text messages and X12 997 acknowledgments.

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#### 4.4.1 Processing Outbound Traffic

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When a user issues a request for quote, a common database format file is produced by the GATEC application. After producing the CDF, the file is placed on the outbound queue (`lpr -Poutbound`).

The script *outbound* (located at `/home/gatec2/bin` on the Transport Machine), operates on the 840, 850, and 836 CDFs. Whenever, an item is placed on the outbound queue, this script is invoked. The script first removes all asterisk characters from the CDF. It then attempts to identify the purpose of the CDF by looking at the "%purpose" field in the CDF file. If the CDF is an 840, the translator engine (*TE*, located in `/home/gatec2/bin` on the Transport Machine) is run on the incoming CDF with the files located in `/home/gatec2/lib/gst/2.0cdfto840` on the Transport Machine. If the CDF is an 850, the translator files used are located in the directory `/home/gatec2/lib/gst/2.0cdfto850` on the Transport Machine. If the CDF is an 836, the translations in `/home/gatec2/lib/gst/2.0cdfto836` are used to generate an 836 (award summary). It should be noted that the translator also places a SMTP envelope around the X12 message so that the generated file may be immediately shelled out by the *outbound* script. The "From:" field will contain "gatec," the "To:" will read "<@ec099.llnl.gov:public@ec099.llnl.gov>" for 840's and 836's and "<@ec099.llnl.gov:<vendor address>" for 850's, 824's and 864's. The "Subject;" field will contain the GATEC convention: subject:UTN. Where the UTN contains the site id, requisition number, and line item number and subject is 840, 850, 836, 824, 864 or 997. All mail messages sent out from the site are also copied to the mail archive (located at `/usr/spool/mail/archive` on the Transport Machine).

---

#### 4.4.2 Processing Inbound Traffic

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Inbound processing is accomplished with the script named *inbound* (located at `/home/gatec/bin` on the Transport Machine). It is activated by `sendmail` when a message is placed on the inbound queue (It essentially cats the message to `lpr -Pinbound`). The message is first placed in a temporary file. Next, an attempt is made to extract a return address if a 997 (an acknowledgment receipt for the incoming x12 transaction) needs to be produced. Checks are then made to insure the message has an ISA delimiter

and valid X12. If the X12 message is not an 838, the UTN is grabbed from the subject and an x12 to 997 translation is invoked (x12 to 997 translator tables located at /home/gatec2/lib/gst/x12to997.3010 on the Transport Machine) The translation is accomplished with the translator engine. If the 997 is successfully produced, it is immediately mailed back to the hub. A copy is also sent to the archive (a copy of the original mail message is also mailed to the archive).

The next operation *inbound* performs is a translation of the incoming transaction into a common data format. This is accomplished with the translation tables located at /home/gatec2/lib/gst/2.0alltocdf on the transport machine. After the translation to the CDF, one of the following programs will be called (located in /home/gatec2/bin on the Transport Machine) depending upon what type of X12 interchange was just translated:

*843CDFtoDB* - loads a response to a request for quote into the database. The following tables may be updated: Document, Item, PaperworkType, LineItem, Quote, QuoteLineItem, Quoteterms and Part.

*864CDFtoDB* - loads a text message associated with an RFQ number into the database. The following tables may be updated: Acquisition, Document, MessageFrom, MessageText, MessageTo, MessageReference, Vendor.

*824CDFtoDB* - loads an application acknowledgment into the database.

*838CDFtoDB*- loads vendor registration into the database. The following tables may be updated: InterchangeControlHdr, FunctionalGroupHdr, Vendor. The mandatory items which must be specified in the CDF file are:

In general all programs operate in the same manner. First they connect to the database (via sqlnet), then they instantiate all necessary table objects (tables mentioned above). After insuring that the mandatory items have been specified in the CDF file, the data is placed into the appropriate tables. If the database is down, the cdfretry script will retry the database insertion until success is achieved.

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## 4.5 Hub Operations

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Hub operations involve forwarding messages received from a site to the appropriate VAN(s). Messages received from the VANs must also be properly forwarded to the correct site.

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#### 4.5.1 Mail from VAN(s)

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When a mail message is received *sendmail* will cat the message to a C program known as *hubrbs* (located on the hub at ~hubmgr/bin). If the program is able to detect a correct subject line and the vendor email address; the correct forwarding site id is pulled off the subject line and the message is forwarded to the site. If there are problems with the subject line; the message is placed on the hub printer queue, this will invoke the *hubmgr* script which makes the current directory ~hubmgr/hubmgr. The translator engine is then run to attempt to extract out a UTN. If one can be reconstructed, the message is forwarded to the appropriate site. If a UTN cannot be discerned, a mail message is sent to the VAN point of contact informing them of the problem. All messages received and or generated during this process are archived.

---

#### 4.5.2 Mail from Site

---

When a mail message is received that is addressed to public (typically an 840, or an 836), a shell script named *fanout* (located at ~hubmgr/bin on the hub) is invoked which reads in the address file located at ~hubmgr named public. This contains all the VAN email addresses. The original X12 message is encapsulated into an SMTP envelope for each VAN, then sent out. Each VAN message is archived. Note that nothing need be done with the ISA which is in the X12 message that is received by the hub. The VAN will handle it as long as it says "PUBLIC" in the ISA.

When a message is received that is addressed to a specific vendor at a van; *sendmail* will take care of the forwarding. This is relatively straightforward since the form of the message "To:" statement will be

To: gatec@hub:vendor@van

*sendmail* just removes everything up to an including the colon. Before sending the message out; it is also archived.

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#### 4.5.3 Registration

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To register for electronic commerce, a vendor sends an 838 to registrar@hub. *sendmail* will cat this message to a script known as



*ven glue* (located at ~hubmgr/bin on the hub). The first thing it will do is construct a return 997, insure the format is correct, then send the 997 to the vendor. Next, the current directory is changed to ~hubmgr/838to824, where the translator engine is executed on the 838 message. If errors are detected, an 824 message is generated, then *ven glue* places a SMTP envelope around it and sends it out. If the 838 had no errors, an email message is sent to the site indicating a new vendor is registering. The 838 is then mailed to the other hub machine and put on a queue that the *ven glue2* (~hubmgr/bin) script has access to. *ven glue2* runs the C program known as *ven reg* that runs a translation of the 838 to create a temporary CDF file. This file is checked for semantics; and if okay, a temporary cage code for the vendor (if needed) is created and a government password is assigned. This information (via another translation) is placed in an 838C. *ven glue2*, then mails the translated file back to the SPARC hub for processing by the *ven glue3* program. This will place the 838C into an SMTP envelope for mailing to the site and back to the vendor. The registration information is also placed in a Unify database on the hub. All messages received and or generated during this process are archived.

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## 4.6 Database Operations

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There are certain "manual" activities which may become necessary for the GATEC operator to perform in order to keep the system "smoothly" running. Nominally, these activities will address certain error situations which cannot be automatically handled by the GATEC system. Typically an operator is informed of errors with either a phone call from a buyer or VAN, or by reading the gatecmgr mail. With the aid of specialized support software, these errors are quite straightforward and easy to correct. However, before they are discussed, a brief overview of the GATEC database schema will be presented. The information presented is the minimum knowledge required to understand operations that might have to be performed manually by the GATEC operator.

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### 4.6.1 Understanding the Database Schema

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There are many tables which comprise the heart of the GATEC database. The entire schema is explained in the Database section of the *GATEC Internal Software Description Document*. [REF016]. Every GATEC table will not be discussed in this section. Instead only the very key ones will be described.

Before discussing table content it should be noted that all GATEC tables always have four columns; namely,

ACTIVESTATUS	1 - current; all other old
STATUSDATE	Date/time update took place
STATUSOPERATION	Operation code (not key to understand)
STATUSORIGINATOR	login id of person making change

These serve as a mechanism for keeping track of old information without having to delete anything from the GATEC database. Current information always has an ACTIVESTATUS of 1. All other values of active status imply "old" data. Keeping this old data around is very useful in debugging situations.

The data in the following tables are derived from the following BCAS parameters which are obtained from the FTP'd BCAS OPR, Item, and Nomenclature files (see Section 4). Some data are also created from buyer interaction.

Solicitation Number	(e.g. 94T1234)
Line Item	(e.g. 0001)
Buyer Code (BSP)	(e.g. G1G)
Requisition Number (i.e. Purchase Request Number)	(e.g. FE230032732376)
Unit of Issue	(e.g. EA)
Stock Number	
Quantity	(e.g. 1)
Required Delivery Date	(e.g. 01 DEC 93)
Estimated Price	(e.g. \$1.09)
Fund Code	
Project Title	
Project Code	
Signal Code	
Supplemental Address	
Priority	(e.g. 4)
Item description	
Manufacturer	
Stock number	

Throughout the discussion of tables the following identifiers will be used to note data origin.

Column name prefaced with "\*" = Obtained from BCAS OPR table  
Column name prefaced with "\*\*\*" = Obtained from BCAS Item table  
Column name prefaced with "\*\*\*\*" = Obtained from BCAS Nomenclature table

**Document Table** - Defines X12 documents which are in the GATEC database. Typically indexed on UTNNUMBER.

DOCUMENTID	key to index other tables mentioned below
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*UTNNUMBER	(e.g. F3360194T3294001)
TRANSACTIONNUMBER	Not used
DOCUMENTTYPE	{ 824   836   840   843   850   864 }
DOCUMENTVERSION	Not used
X12REFERENCENUMBER	Not used
EFFECTIVEDATE	Not used
EXPIRATIONDATE	Not used
DOCUMENTSTATUS	Not important
REVIEWSTATUS	Not used
ACTIVESTATUS	
STATUSDATE	
STATUSOPERATION	
STATUSORIGINATOR	

NOTES:

824 - application advice  
836 - award summary  
840 - RFQ  
843 - bid  
850 - award  
864 - message

**Acquisition table** - Defines RFQ's downloaded from BCAS. Typically indexed on UTNNUMBER.

*RFQNUMBER	(e.g. 94T1234)
*SOLICITATIONNUMBER	(e.g. 94T1234)
SITEID	(e.g. F33601)
*UTNNUMBER	(e.g. F3360194T3294001)
DPASPRIORITY	Not used
INTERNALORDERNUMBER	Not used
*PURCHASEREQNUMBER	(requisition # e.g. FE230032732376)
*ASSIGNEDBUYER	(the BSP, e.g. G1G)
HOLDSTATUS	
HOLDPERIOD	
REVIEWSTATUS	{ UI   UH   OP   CL   CH   AW   CA }
PRIORITY	3 and above
ACTIVESTATUS	
STATUSDATE	
STATUSOPERATION	
STATUSORIGINATOR	

**Solicitationlineitem** - Typically indexed on SOLICITATIONNUMBER and LINEITEM number.

*SOLICITATIONNUMBER	(e.g. 94T1234)
*LINEITEM	(e.g. 0001)
*FUNDPCODE	(e.g. 6C)

*PROJECTTITLE	Usually not used
*PROJECTCODE	Usually not used
*SIGNALCODE	(e.g. A)
SUPPLEMENTALADDRESS	(e.g. YBZ162)
BRANDNAMEORSOLESOURC	Usually not used
PRIORITY	(e.g. 9)
*SHIPTOSRAN	(e.g. FE2300)
*BILLTOSRAN	(e.g. FE2300)
ACTIVESTATUS	
STATUSDATE	
STATUSOPERATION	
STATUSORIGINATOR	

**lineitem** - Typically indexed on DOCUMENTID obtained from document table, where the DOCUMENTTYPE = 840.

DOCUMENTID	
*ITEMNUMBER	(e.g. 0001, i.e. line item number)
DOCUMENTTYPE	(e.g. 840)
UNITOFMEASURE	(e.g. EA)
*FEDSTOCKCLASS	(e.g. 7195)
STDINDUSTRIALCLASS	Not used
SRANCODE	Not used
*QUANTITY	(e.g. 5)
STATUS	Not used
ACTIVESTATUS	
STATUSDATE	
STATUSOPERATION	
STATUSORIGINATOR	

**part** - Typically indexed on DOCUMENTID obtained from document table, where the DOCUMENTTYPE = 840.

DOCUMENTID	
*ITEMNUMBER	(e.g. 0001)
PARTIDENTIFIER	
**PARTNUMBER	(e.g. MG C5200)
**MANUFACTURER	(e.g. GLOBAL)
ITEMDESCRIPTION	Not used
SERVICEDESCRIPTION	Not used
ACTIVESTATUS	
STATUSDATE	
STATUSOPERATION	
STATUSORIGINATOR	

**reqforquote** - Typically indexed on DOCUMENTID obtained from document table, where the DOCUMENTTYPE = 840.

DOCUMENTID	
DPASPRIORITY	Not used
INTERNALORDERNUMBER	Not used
*SOLICITATIONNUMBER	(e.g. 93T1234)
*PURCHASEREQNUMBER	(e.g. FE230032732376)
QUOTERECEIVEDBYDATE	Not used
QUOTERECEIVEDBYTIME	Not used
DELIVEREDBYDATE	Not used
SMALLBUSINESSORPURCH	Not used
SENTTOPUBLIC	Not used
REQUESTFORQUOTEDESC	Not used
AMENDED	{ Y   N }
ACTIVESTATUS	
STATUSDATE	
STATUSOPERATION	
STATUSORIGINATOR	

**reqforquotelineitem.** Typically indexed on DOCUMENTID obtained from document table, where the DOCUMENTTYPE = 840.

DOCUMENTID  
 \*ITEMNUMBER  
 \*PURCHASEREQNUMBER  
 \*\*ITEMDESCRIPTION01  
 \*\*ITEMDESCRIPTION02  
 \*\*ITEMDESCRIPTION03  
 \*\*ITEMDESCRIPTION04  
 \*\*ITEMDESCRIPTION05  
 \*\*ITEMDESCRIPTION06  
 \*\*\*ITEMDESCRIPTION07  
 \*\*\*ITEMDESCRIPTION08  
 \*\*\*ITEMDESCRIPTION09  
 \*\*\*ITEMDESCRIPTION10  
 \*\*\*ITEMDESCRIPTION11  
 \*\*\*ITEMDESCRIPTION12  
 \*\*\*ITEMDESCRIPTION13  
 \*\*\*ITEMDESCRIPTION14  
 \*\*\*ITEMDESCRIPTION15  
 \*\*\*ITEMDESCRIPTION16  
 \*\*\*ITEMDESCRIPTION17  
 \*\*\*ITEMDESCRIPTION18  
 \*\*\*ITEMDESCRIPTION19  
 \*\*\*ITEMDESCRIPTION20  
 \*\*\*ITEMDESCRIPTION21  
 \*\*\*ITEMDESCRIPTION22  
 \*\*\*ITEMDESCRIPTION23  
 \*\*\*ITEMDESCRIPTION24  
 \*\*\*ITEMDESCRIPTION25  
 \*\*\*ITEMDESCRIPTION26  
 \*\*\*ITEMDESCRIPTION27

***ITEMDESCRIPTION28	
***ITEMDESCRIPTION29	
***ITEMDESCRIPTION30	
***ITEMDESCRIPTION31	
***ITEMDESCRIPTION32	
***ITEMDESCRIPTION33	
***ITEMDESCRIPTION34	
***ITEMDESCRIPTION35	
***ITEMDESCRIPTION36	
***ITEMDESCRIPTION37	
***ITEMDESCRIPTION38	
***ITEMDESCRIPTION39	
***ITEMDESCRIPTION40	
***ITEMDESCRIPTION41	
***ITEMDESCRIPTION42	
***ITEMDESCRIPTION43	
***ITEMDESCRIPTION44	
***ITEMDESCRIPTION45	
***ITEMDESCRIPTION46	
***ITEMDESCRIPTION47	
***ITEMDESCRIPTION48	
*QUANTITY	(e.g. 5)
*UNITOFMEASURE	(e.g. EA)
*UNITPRICE	(e.g. 5.90)
UNITPRICEBASIS	Not used
*FEDSTOCKCLASS	(e.g. 7150)
STDINDUSTRIALCLASS	Not used
PARTLISTINCLUDED	(e.g. Y)
FSCSUFFIX	(e.g. 24)
SHIPTOZIP	(e.g. 454335000)
ACTIVESTATUS	
STATUSDATE	
STATUSOPERATION	
STATUSORIGINATOR	

**solicitationlineitemerror.** Typically indexed on solicitationnumber and lineitem.

*SOLICITATIONNUMBER	(e.g. 93T1234)
*LINEITEM	(e.g. 0001)
TEXTID	pointer to text table
SUBJECT	(e.g. Upload BCAS error)
ERRORDATE	(e.g. 03-DEC-93)
MESSAGEREAD	(e.g. { Y or blank })
ACTIVESTATUS	
STATUSDATE	
STATUSOPERATION	
STATUSORIGINATOR	

**text.** Typically indexed on textid.

TEXTID

LINEINDEX	(e.g. 0,1..)
BODY	one line of message
ACTIVESTATUS	
STATUSDATE	
STATUSOPERATION	
STATUSORIGINATOR	

Two tables (in addition to the document table) are used to keep track of received quote information:

**quote.** Typically indexed on DOCUMENTID obtained from document table, where the DOCUMENTTYPE = 843.

DOCUMENTID	
VENDORID	(pointer into vendor table)
RFQREFNUMBER	(e.g. F3360194T3294001)
RFQEFFECTIVEDATE	(e.g. 12-NOV-93)
QUOTEFFECTIVEDATE	Not used
QUOTEEXPIREDATE	Not used
QUOTETYPE	Not used
PRICEQUOTEREFNUMBER	(e.g. F3360194T3294001)
NOTESATTACHED	(Y or blank)
CURRENCYCODE	Not used
EXCHANGERATE	Not used
RATEEFFECTIVE	Not used
RATEEXPIRES	Not used
CONTRACTREFNUMBER	Not used
CONTRACTDESCRIPTION	Not used
CONTRACTEXPIREDATE	Not used
ISSMALLBUSINESS	{ Y   N }
FEDSUPPLYSCHEDNUMBER	Not used
FEDSUPPLYSCHEDDATE	Not used
SELLERNAME	(e.g. SUPPLIES INCORPORATED)
SELLERCAGECODE	Not used
SELLERADDRESS	(e.g. P.O. BOX 123)
SELLERADDRESS2	Not used
SELLERCITY	(e.g. Dallas)
SELLERSTATE	(e.g. CA)
SELLERZIPCODE	(e.g. 95458)
SELLERCOUNTRY	Not used
QUOTERNAME	Not used
QUOTERCAGECODE	Not used
QUOTERADDRESS	Not used
QUOTERCITY	Not used
QUOTERSTATE	Not used
QUOTERZIPCODE	Not used
QUOTERCOUNTRY	Not used
ELECTRONIC	Not used
FROMFPI	Not used
FROMREQTS CONTRACT	Not used
FIRSTCONTACTID	Not used

SECONDCONTACTID	Not used
THIRDCONTACTID	Not used
QUOTEDESCRIPTION	Not used
ACTIVESTATUS	
STATUSDATE	
STATUSOPERATION	
STATUSORIGINATOR	

**quotelineitem.** Typically indexed on DOCUMENTID obtained from document table, where the DOCUMENTTYPE = 843.

DOCUMENTID	
ITEMNUMBER	(e.g. 0001)
ISFEDERALSUPPLYSCHED	Not used
CONTRACTREFNUMBER	Not used
CONTRACTDESCRIPTION	Not used
CONTRACTEXPIREDATE	Not used
REFERENCENUMBER	(e.g. F3360194T3294001)
REFERENCEDESCRIPTION	Not used
ITEMDESCRIPTION01	Not used
ITEMDESCRIPTION02	Not used
ITEMDESCRIPTION03	Not used
ITEMDESCRIPTION04	Not used
ITEMDESCRIPTION05	Not used
ITEMDESCRIPTION06	Not used
ITEMDESCRIPTION07	Not used
ITEMDESCRIPTION08	Not used
ITEMDESCRIPTION09	Not used
ITEMDESCRIPTION10	Not used
ITEMDESCRIPTION11	Not used
ITEMDESCRIPTION12	Not used
ITEMDESCRIPTION13	Not used
ITEMDESCRIPTION14	Not used
ITEMDESCRIPTION15	Not used
ITEMDESCRIPTION16	Not used
ITEMDESCRIPTION17	Not used
ITEMDESCRIPTION18	Not used
ITEMDESCRIPTION19	Not used
ITEMDESCRIPTION20	Not used
ITEMDESCRIPTION21	Not used
ITEMDESCRIPTION22	Not used
ITEMDESCRIPTION23	Not used
ITEMDESCRIPTION24	Not used
ITEMDESCRIPTION25	Not used
ITEMDESCRIPTION26	Not used
ITEMDESCRIPTION27	Not used
ITEMDESCRIPTION28	Not used
ITEMDESCRIPTION29	Not used
ITEMDESCRIPTION30	Not used



ITEMDESCRIPTION31	Not used
ITEMDESCRIPTION32	Not used
ITEMDESCRIPTION33	Not used
ITEMDESCRIPTION34	Not used
ITEMDESCRIPTION35	Not used
ITEMDESCRIPTION36	Not used
ITEMDESCRIPTION37	Not used
ITEMDESCRIPTION38	Not used
ITEMDESCRIPTION39	Not used
ITEMDESCRIPTION40	Not used
ITEMDESCRIPTION41	Not used
ITEMDESCRIPTION42	Not used
ITEMDESCRIPTION43	Not used
ITEMDESCRIPTION44	Not used
ITEMDESCRIPTION45	Not used
ITEMDESCRIPTION46	Not used
ITEMDESCRIPTION47	Not used
ITEMDESCRIPTION48	Not used
DELIVERYDATE	Not used
QUANTITY	(e.g. 4)
UNITOFMEASURE	(e.g. EA)
UNITPRICE	(e.g. 40.00)
UNITPRICEBASIS	Not used
FEDSTOCKCLASS	Not used
STDINDUSTRIALCLASS	Not used
PARTLISTINCLUDED	Not used
VARIATIONPERCENT	Not used
ISWINNER	(Y or blank)
ACTIVESTATUS	
STATUSDATE	
STATUSOPERATION	
STATUSORIGINATOR	

**quoteterms.** Typically indexed on DOCUMENTID obtained from document table, where the DOCUMENTTYPE = 843.

DOCUMENTID	
TERMSBASIS	Not used
DISCOUNTPERCENT	(e.g. 1)
DISCOUNTDUE DATE	Not used
DISCOUNTDUE DAYS	(e.g. 20)
NETDUE DATE	(e.g. 30)
NETDUE DAYS	Not used
TOTALDISCOUNT	Not used
DEFERRED DATE	Not used
DEFERRED AMOUNT	Not used
INVOICE PAYABLE PERCENT	Not used
EXPLANATION	Not used
DAY OF MONTH	Not used
PAYMENT METHOD	Not used

ACTIVESTATUS  
STATUSDATE  
STATUSOPERATION  
STATUSORIGINATOR

Three tables (in addition to the document table) are used to keep track of award information.

**award.** Typically indexed on DOCUMENTID obtained from document table, where the DOCUMENTTYPE = 850.

DOCUMENTID	
PURCHASETYPE	Not used
PURCHASEORDERNUMBER	(e.g. 94M7884)
CALLDELIVERYORDERNU	Not used
EFFECTIVEDATE	(e.g. 29-NOV-93)
ACKNOWLEDGEMENT	(e.g. NA)
AWARDDescription	Not used
BUYERCURRENCYCODE	Not used
BUYEREXCHANGERATE	Not used
BUYERRATEEFFECTIVE	Not used
BUYERRATEEXPIRES	Not used
SELLERCURRENCYCODE	Not used
SELLEREXCHANGERATE	Not used
SELLERRATEEFFECTIVE	Not used
SELLERRATEEXPIRES	Not used
INTERNALORDERNUMBER	Not used
PURCHASEREQNUMBER	(e.g. FE230032732376)
DPASPRIORITY	(e.g. c9e)
ACCTGNAPPROPDATA	Not used
ACCTGCLASSREFNUMBER	Not used
QUOTEREFERENCENUMBE	Not used
QUOTEREFERENCEDATE	Not used
RFQREFERENCENUMBER	(e.g. F3360194T3294001)
RFQREFERENCEDATE	Not used
REQUIREDDELIVERYDAT	(e.g. 30-DEC-93)
BUSENTITYTYPE	Not used
BUSENTITYNAME	(e.g. NATIONWIDE SUPPLIES, INC.)
BUSENTITYVENDORID	(index into vendor table)
BUSENTITYDEPT	Not used
BUSENTITYADDRESS	Not used
BUSENTITYDEPT2	Not used
BUSENTITYADDRESS2	Not used
BUSENTITYCITY	Not used
BUSENTITYSTATE	Not used
BUSENTITYZIP	Not used
BIDNUMBER	Not used
BUYERSOFFICESYMBOL	Not used
CRITICALITYDESIGNAT	Not used
FIRSTCONTACTID	Not used

SECONDCONTACTID	Not used
THIRDCONTACTID	Not used
ACTIVESTATUS	
STATUSDATE	
STATUSOPERATION	
STATUSORIGINATOR	

**awardlineitem.** Typically indexed on DOCUMENTID obtained from document table, where the DOCUMENTTYPE = 850.

DOCUMENTID	
ITEMNUMBER	(e.g. 0001)
PRICETYPE	Not used
DPASPRIORITY	(e.g. c9e)
INTERNALORDERNUMBER	Not used
PURCHASEREQNUMBER	Not used
SINGLEDELIVERYDATE	Not used
DELIVERYDATE	(e.g. 30-DEC-93)
TOTALLINEAMOUNT	(e.g. 500.00)
QUANTITY	(e.g. 10)
UNITOFMEASURE	(e.g. EA)
UNITPRICE	(e.g. 50)
UNITPRICEBASIS	Not used
FEDSTOCKCLASS	(e.g. 7150)
STDINDUSTRIALCLASS	Not used
PARTLISTINCLUDED	(e.g. Y)
VARIATIONPERCENT	Not used
PURCHASEVARIATION	Not used
BUYERNAME	ASC/PKWOSA
BUYERCAGECODE	Not used
BUYERDEPT	Not used
BUYERADDRESS	1940 ALLBROOK DR STE 3
BUYERCITY	WRIGHT PATTERSON AFB OH
BUYERSTATE	Not used
BUYERZIP	454335309
SHIPTONAME	BASE SUPPLY OFFICER
SHIPTOVENDORID	Not used
SHIPTODEPT	Not used
SHIPTOADDRESS	BLDG 257 AREA C
SHIPTOCITY	WRIGHT-PATTERSON AFB OH
SHIPTOSTATE	Not used
SHIPTOZIP	454335000
BILLTONAME	ACCOUNTING & FINANCE OFFICE
BILLTOVENDORID	Not used
BILLTODEPT	Not used
BILLTOADDRESS	DAO-DE WP/FSM 1940 ALLBROOK DR
BILLTOCITY	STE 2 WRIGHT-PATTERSON OH
BILLTOSTATE	Not used
BILLTOZIP	454335308
ACTIVESTATUS	
STATUSDATE	

STATUSOPERATION  
STATUSORIGINATOR

**bcasaward.** Usually referenced by UTNNUMBER or PIIN.

UTNNUMBER	(e.g. F3360194T3294001)
VENDORCODE	(e.g. 0FK029S)
NEGOTIATIONAUTHORITY	(e.g. 0301)
COMPETITIONCODE	(e.g. Y)
SOLICITATIONNUMBER	Not used
PIIN	(e.g. 94M7884)
ORDERSTATEMENTS	(e.g. EX IN SI GU)
CONFIRMWITH	Not used
CONTRACTREFNUMBER	Not used
ACTIVESTATUS	
STATUSDATE	
STATUSOPERATION	
STATUSORIGINATOR	

---

#### 4.6.2 Common Operator Database Manipulations

---

The operator must use the ORACLE utility *sqlplus* in order to manipulate the data contained in the tables. There are three common manipulations that an operator might be called to perform.

---

##### 4.6.2.1 Changing REVIEWSTATUS in Acquisition Table

---

The first common operation is changing the REVIEWSTATUS column in the acquisition table. This is done with the following *sqlplus* command:

```
update acquisition set reviewstatus = 'CL' where utnnumber = '&utn' and  
activestatus = 1;
```

(NOTE the &utn syntax will cause *sqlplus* to prompt the user to type in the specific utn value after the command is entered)

The above command will change the status of the acquisition associated with the specified utn from its current status to closed. To change the REVIEWSTATUS to awarded use,

```
update acquisition set reviewstatus = 'AW' where utnnumber =  
'&utn' and activestatus = 1;
```

This operation will change the category (on the buyer workload screen) that the RFQ with the specified utn will be placed in.

---

#### 4.6.2.2      Activating-Deactivating Database Records

---

The second common database operation is activating/de-activating records in tables by changing the `ACTIVESTATUS` field in a table. As an example of this consider de-activating a particular 840 document in the document table,

```
update document set activestatus = 2 where utnnumber = '&utn'
and activestatus = 1 and documenttype = '840';
```

As an another example consider re-activating a record from the lineitem table,

```
update lineitem set activestatus = 1 where documentid = '&docid'
and activestatus = 2;
```

This operation will effectively "hide" that record of data from the GATEC application.

It should be noted that at times it may become necessary to modify other column elements of a record. In these cases the update command can also be used, the general syntax being:

```
update <table_name> set <column_name> = <value> where <column_name_a> =
<constraint_1> and <column_name_b> = <constraint_2> and .... ;
```

---

#### 4.6.2.3      Examining Records in a Database Table

---

The third task an operator might be called on to perform is the examination of particular records in tables. This can be done by using the *sqlplus* select command. For example to display a particular record from the solicitationlineitem table, the following query would be used:

```
select * from solicitationlineitem where solicitationnumber =
'&solno' and lineitem = '&lineno';
```

To examine an award record from the award table requires a two step process. First, the `DOCUMENTID` of the document (with `documenttype = 850`) and with the specified `UTNNUMBER` must be displayed:

```
select documentid from document where utnnumber = '&utn' and
activestatus = 1 and documenttype = '850';
```

The documentid, can then be used in the following query,

```
select * from award where documentid = '&docid';
```

Generally these three operations become necessary to perform in the event that the GATEC application encounters an error situation and cannot complete a task successfully. The select command is used to assess the situation, while the update commands are used to actually remedy the difficulty.

---

#### 4.6.2.4 The Archive Database

---

In the GATEC table space there are another set of tables which have the same names of the primary GATEC tables. The only difference being the archive table names are under a different user (archive/archive). Nominally, all RFQ data is moved to the archive table space 90 days after the RFQ has been awarded or redirected. The archive tables can be manipulated in the same fashion as the primary GATEC tables. The archiving process is located at /home/gatec2/bin on the Database Machine. Its name is *gen\_arch\_gatec.pl.sql*.

---

#### 4.6.2.5 Cleaning /db/log

---

ORACLE writes log files which describe the changes that are being made to the GATEC database. The name of the files are in the form:

arch\_<five\_digit\_number>.dbf

For nominal GATEC activity this directory begins to fill up after three to four days of GATEC use. Nominally, these files should be deleted after either 1) they have been backed up, or 2) the current database has been exported. It is recommended that the cron script which effects backups on the Database Machine delete these files after the backup of the Database Machine has taken place.

---

### 4.7 Re-transmitting Transactions

---

Every transaction which leaves the site is archived in a file named archive. This file is located in /usr/spool/mail on the transport machine. At midnight, this file is copied to the directory /home/archive/archive on the transport machine and given the

name "arch.<year><month><day>" (e.g. arch. 931205, for all transactions which went out on Dec. 5, 1993) by the newsyslog cron located in /home/gatec2/bin on the Transport Machine. It is not uncommon for VANs to sometimes "drop email on the floor." When this occurs it may become necessary for a site to re-transmit particular transactions. Doing this is very straightforward. The operator simply pulls the archive file of interest into an editor and locates the transactions of interest (usually a search is done on the subject line, which is in the form:

```
<x12_transaction_set_number>:<UTN>
```

One simply places the message into a temporary text file transferring the body of the message and the original "To:" and "Subject:" lines. However, the first line of this file must be:

```
/usr/lib/sendmail -f gatec -t<<'EOF'
```

Once the file is written out it need only be shelled to re-mail the message.

If many messages have to be resent it would probably be easier to open the archive file with a mail application, then after finding the messages of interest simply re-send those messages. The *tm* mailer application is used to do this at LLNL. However, other mailers could be used as well.

---

## 4.8 Requeuing

---

The GATEC system uses two types of queues to move data around in the system. Recall the first are UNIX printer queues (there are four):

*inbound* - holds first 1000 inbound SMTP mail messages containing an X12 transaction. These messages come from the hub.

*inbound2* - holds overflow from inbound (up to 1000)

*inbound3* - hold overflow from inbound2 (up to 1000)

*outbound* - holds a flat ASCII file (known as a CDF file---Common Data Format) generated by GATEC application containing information necessary to produce 840, or 850, or 836, or 864

To check the status of these queues the UNIX *lpc* command can be used, e.g.,



lpc status

To hold a queue (i.e. prevent further items from being placed on the queue) the lpc stop command can be used, e.g.,

lpc stop inbound

will hold the inbound queue.

To re-start a queues the lpc start command can be employed, e.g.,

lpc start inbound

For further details consult the *SunOs Reference Manual* [REF007].

The second type of queue is known as a "multi-user queue." These queues are established and maintained with public domain software (see public domain software section in *GATEC Internal Software Description Document*. [REF016]. Recall there are three multi-user queues in the GATEC system:

*bcasupload* - holds names of 850 and 836 CDFs as well as BCAS CDF. The putuploads\_cron uses this queue to upload award information to BCAS. If the award is successfully upload, the cron sends the 850 and 836 CDF's to the *outbound* printer queue for processing by the *outbound* application.

*bcasitem* - holds name of CDF file containing item description information to upload back to BCAS. The upload\_bcas\_item\_desc\_cron makes use of this queue.

*bcascancel* - holds names of 850 and 836 CDFs as well as a CDF containing award cancel information to be uploaded to BCAS. The upload\_bcas\_cancel\_award\_cron makes use of this queue. If the cancel information is successfully uploaded, the 850 CDF only is sent to the outbound queue.

To prevent access to the multi-user queues (unfortunately queuing cannot be absolutely disabled, instead only access to the queue can be controlled) one can use the qsetstatus command. For example, to prevent access (i.e. prevent an application from taking an item off the queue) to the bcasupload queue one would use the following,

qsetstatus bcasupload DOWN

To re-enable the queue,

qsetstatus bcasupload UP

It sometimes becomes necessary to manually requeue items on

both types of queues. For example, assume that a particular 840 CDF was not sent to the outbound queue. In order to resend it the operator would simply type:

`lpr -Poutbound <filename>`

840, 850, BCAS, and 836 CDF's can be found in `/home/gatec2/tmp` on the Database Machine with filenames of the form:

840<four\_alpha\_chars><5\_digits> e.g. 840PCAA03582

850<four\_alpha\_chars><5\_digits> e.g. 850HAAa20250

836<four\_alpha\_chars><5\_digits> e.g. 836WAAa18576

BCAS<four\_alpha\_chars><5\_digits> e.g. BCASLAAa06366

840 files are not automatically deleted from this directory, instead, the `remoldfiles_cron` periodically cleans the directory. The directory can also be manually cleaned. It is recommended that at least the last three days of files be kept. 850 and 836 CDF files are automatically deleted by the `putuploads_cron` after the files are successfully sent to the *outbound* printer queue. The operator should be warned that if BCAS is down for a number of days a large number of 836, 850 and BCAS CDFs will accumulate since uploads are not taking place. The operator should also be warned that it is very unlikely that he/she will have to directly requeue an 850 or 836 to the outbound queue. This is because the queuing should not be done unless the corresponding award information has been successfully uploaded to BCAS. The content of the 840, 850, and 836 CDFs are described in Section 6.

The *inbound*, *inbound1*, and *inbound2* queues can be manipulated in a similar fashion. However, recall only the filenames of files using SMTP mail holding X12 843, 864, and 838c transactions are queued on the inbound queues. A common reason for having to requeue *inbound* is the inability of quotes (for some reason) to get into the database. Section 5 discusses some error conditions which might cause this to occur.

Sometimes it will also be necessary to requeue the *bcascancel*, *bcasitem*, and *bcasupload* queues. To do this the utility *qadditem* is used.

The cancel queue must have the cancel CDF filename as the first parameter, then the names of the 850 and 836 CDFs (in one string). Thus if 850HAAa20250, and 836GAAa20250 corresponded to the cancel CDF eaaa20250, the Requeuing command would look like:

`qadditem bcascancel eaaa20250 "850HAAa20250 836GAAa20250"`

Requeuing the *bcasupload* queue is similar, except the BCAS CDF is the first file specified, for example,

```
qadditem bcasupload BCASTAAa12021 "850SAAa12021 836RAAa12021"
```

The *itemupload* queue only takes one filename, the CDF file containing the item description information to upload, the first string specified is the stock number of the item description begin uploaded. So if the file *aaaa13706* had the item description for stock number 651501263600 then the requeuing command would look like:

```
qadditem bcasitem "6515012636300" aaaa13706
```

---

## 4.9 Managing Item Upload CDF Files

---

Item description CDFs reside in the */var/tmp* directory. These files are not automatically deleted. Two utilities exist to help operations personnel delete the files. The first utility *extractItemResults* (located in */home/gatecmgr/handleItemFiles*) on the Database Machine takes as input the upload results email messages sent to gatecmgr by the *upload\_bcas\_item\_desc\_cron*. It proceeds to delete those files whose item descriptions has been successfully uploaded. It moves those item CDFs which were not successfully uploaded to the */home/bcas/items* directory (also on the Database Machine). Actually, each time *extractItemResults* is run it creates a directory in */home/bcas/items* to place the error files. The directory name has the form: *errDir<five\_digit\_number>*. These files must be reviewed in tandem with the error messages received by the gatecmgr user to evaluate the difficulty with the files. Invariably the problem involves a line in the file which exceed the BCAS limits. The diagnostic error messages are discussed in Section 5.

Another Bourne Shell script named *itemGarbageCollector* is meant to operate on the */var/tmp* directory when the *bcasitem* queue is empty. It searches the directory to see if it can identify item CDF files which have not been deleted, but whose corresponding stock number shows a successful upload in the *item\_upload\_trace* log in the */home/bcas* directory. Those files will be deleted---any files whose stock numbers are not found are automatically requeued on the *bcasitem* queue.

Cancel award CDFs also reside in the `/var/tmp` directory. These files are not automatically deleted. Two utilities exist to help operations personnel delete the files. The first utility *extractCancelResults* (located in `/home/gatecmgr/handleItemFiles`) on the Database Machine takes as input the upload results email messages sent to gatecmgr by the *upload\_cancel\_award\_cron*. It proceeds to delete those files whose cancellations has been successfully uploaded. It moves those item CDFs which were not successfully canceled to the `/home/bcas/items` directory (also on the Database Machine). Actually, each time *extractCancelResults* is run it creates a directory in `/home/bcas/items` to place the error files. The directory name has the form: `errCancelDir<five_digit_number>`. These files must be reviewed in tandem with the error messages received by the gatecmgr user to evaluate the difficulty with the files. There are many reasons why a cancellation may fail. The diagnostic error messages are discussed in Section 5.

Another Bourne Shell script named *cancelGarbageCollector* is meant to operate on the `/var/tmp` directory when the *bcascancel* queue is empty. It searches the directory to see if it can identify cancel CDF files which have not been deleted, but whose corresponding piin number shows a successful cancellation in the *cancel\_upload\_trace* log in the `/home/bcas` directory. Those files will be deleted---any files whose piin numbers are not found are automatically requeued on the *bcascancel* queue.

---

## SECTION 5 Understanding Diagnostic Messages Sent to gatecmgr

---

Diagnostic error messages come to gatecmgr from many sources including putuploads\_cron, getopr\_bsp\_cron3, getstmntship\_cron, upload\_bcas\_item\_desc\_cron, upload\_bcas\_cancel\_award\_cron, 843CDFtoDB, 864CDFtoDB, 824CDFtoDB, 838CcCDFtoDB and ack\_cron\_pl. Actions that should be taken on receipt of such messages are discussed in the following sections.

---

### 5.1 Typical *putuploads\_cron* Diagnostic Messages

---

Note that the *putuploads\_cron* diagnostic messages are not only sent to the gatecmgr. They are also attached as a message to the RFQ in the GATEC database. Thus, when awards fail, the buyer will have the ability to read the diagnostic and take action as well. Common *putuploads\_cron* diagnostic messages are discussed below,

---

#### 5.1.1 BCAS Down

---

From: gatecmgr@gatecb.wpafb.af.mil (GATEC manager)  
Message-Id: <9307152356.AA00198@gatecb.wpafb.af.mil>  
To: gatecmgr@gatecb.wpafb.af.mil  
Subject: putuploads\_cron  
Status: O

putuploads\_cron: upload failed on cdf file /home/gatec2/tmp/BCASBAAa16716, stopping.  
BCASupload: ----- program begins  
cmdargs  
Network connection failed (Connection timed out).  
BCASupload: can't establish TCP connection to wpwan08.wpafb.af.mil

This is a very typical message. Often times the BCAS system is down and not available. The operator need not worry, *putuploads\_cron* will requeue the file and try again later

---

### 5.1.2 BCAS Telnet Sessions Exhausted

---

To: gatecmgr@gatecb.wpafb.af.mil  
Subject: putuploads\_cron  
Status: O  
putuploads\_cron: upload failed on cdf file /home/gatec2/tmp/BCASBAAa00553, stopping.  
BCASupload: ----- program begins  
cmdargs  
login  
BCASupload: no telnet sessions available on BCAS  
BCASupload: couldn't log in to BCAS processor at wpwan08.wpafb.af.mil  
finis

BCAS has a limited number of Telnet sessions available. Again, this requires no operator intervention, as the file will be requeued and *putuploads\_cron* will try later.

---

### 5.1.3 BCAS Login Inhibited

---

To: gatecmgr@gatecb.wpafb.af.mil  
Subject: putuploads\_cron  
Status: O  
putuploads\_cron: upload failed on cdf file /home/gatec2/tmp/BCASOAAa00553, stopping.  
BCASupload: ----- program begins  
cmdargs  
login  
BCASupload: 'LOGON INHIBITED'  
BCASupload: couldn't log in to BCAS processor at wpwan08.wpafb.af.mil  
finis

Another BCAS down error message. *putuploads\_cron* will try again later.

---

### 5.1.4 BCAS Disconnect

---

To: gatecmgr@gatecb.wpafb.af.mil  
Subject: putuploads\_cron  
Status: RO  
putuploads\_cron: upload failed on cdf file /home/gatec2/tmp/BCASJAAa05852, stopping.  
BCASupload: ----- program begins  
cmdargs

login  
^M  
...Remote computer disconnect.  
^Mfinis

Sometimes BCAS will spontaneously disconnect. This is a typical error message for this situation. *putuploads\_cron* will try again later.

---

#### 5.1.5 Vendor Code Incompatible With the Negotiation Authority

---

From: gatecmgr@gatecb.wpafb.af.mil (GATEC manager)  
Message-Id: <9307191358.AA06660@gatecb.wpafb.af.mil>  
To: gatecmgr@gatecb.wpafb.af.mil  
Subject: putuploads\_cron  
Status: O

putuploads\_cron: upload failed on cdf file /home/gatec2/tmp/BCASBAa05852, continuing ...

BCASupload: ----- program begins

cmdargs

login

walkmenus

menumove(17, BCAS)

pfkey(17)

substr(PQRSwxymtuvlqrsn, 0, 0)

Menu: BCAS...start...end

menumove(3, SUPSRV)

pfkey(3)

substr(PQRSwxymtuvlqrsn, 2, 2)

Menu: SUPSRV...start...end

menumove(8, AWDS)

pfkey(8)

substr(PQRSwxymtuvlqrsn, 7, 7)

Menu: AWDS...start...end

parsefields(/tmp/uploadcdf6613)

Cannot open /dev/null (Error 0).

gateway internal open bug detected and handled. Continuing ...

checkvars

BCASupload: processing award piin 93MH605

BCASupload: Awarding solicitation number: 93TL415

attempting purchase order

menumove(1, AWD01)

pfkey(1)

substr(PQRSwxymtuvlqrsn, 0, 0)

Menu: AWD01...start...end

upload

fixfield(2B0942L, 7)

```
fixfield(1, 4)
fixfield(93MH605, 7)
fixfield(93JUL19, 7)
fixfield(, 15)
fixfield(Y, 1)
fixfield(0301, 4)
output :EXINSIGU
fixfield(N, 1)
fixfield(, 3)
fixfield(c9e, 3)
fixfield(G1R, 3)
fixfield(N, 1)
fixfield(N, 1)
fixfield(N, 1)
menumove(0, AWD02)
Menu: AWD02...Timeout!
BCASupload: did not reach AWD02 menu
resp_err
BCASupload: vendor_bcas_code: 2B0942L
BCASupload: BCAS reports vendor_bcas_code error: VEND-TP INCOMPAT WITH NEG-
AUTH
BCASupload: upload probably failed for input file /tmp/uploadcdf6613
```

Here the vendor code is incompatible with the negotiation authority. This error message is also attached as a message to the RFQ in the GATEC system. The buyer will have to re-award.

---

#### 5.1.6 Unable to Get to Desired Menu

---

```
From: gatecmgr@gatecb.wpafb.af.mil (GATEC manager)
Message-Id: <9307191358.AA06660@gatecb.wpafb.af.mil>
To: gatecmgr@gatecb.wpafb.af.mil
Subject: putuploads_cron
Status: O
```

```
putuploads_cron: upload failed on cdf file /home/gatec2/tmp/BCASOBAA21838, continuing ...
BCASupload: ----- program begins
cmdargs
login
walkmenus
menumove(17, BCAS)
pfkey(17)
substr(PQRSwxymtvlqrsn, 0, 0)
Menu: BCAS...start...end
menumove(3, SUPSRV)
pfkey(3)
substr(PQRSwxymtvlqrsn, 2, 2)
Menu: SUPSRV...start...end
```



menumove(8, AWDS)  
pfkey(8)  
substr(PQRSwxymtuvlqrsn, 7, 7)  
Menu: AWDS...start...end  
parsefields(/tmp/uploadcdf21919)  
Cannot open /dev/null (Error 0).  
gateway internal open bug detected and handled. Continuing ...  
checkvars

BCASupload: processing award piin 93MH793  
BCASupload: Awarding solicitation number: 93TM026  
attempting purchase order  
menumove(1, AWD01)  
pfkey(1)  
substr(PQRSwxymtuvlqrsn, 0, 0)  
Menu: AWD01...start...end  
upload  
fixfield(ONLH69S, 7)  
fixfield(1, 4)  
fixfield(93MH793, 7)  
fixfield(93JUL20, 7)  
fixfield(, 15)  
fixfield(Y, 1)  
fixfield(0301, 4)  
output :EXINSIGU :  
fixfield(N, 1)  
fixfield(, 3)  
fixfield(c9b, 3)  
fixfield(G1R, 3)  
fixfield(N, 1)  
fixfield(N, 1)  
fixfield(N, 1)  
menumove(0, AWD02)  
Menu: AWD02...start...end  
fixfield(93TM026, 7)  
fixfield(0001, 4)  
menumove(0, AWD03)  
Menu: AWD03...Timeout!  
BCASupload: did not reach AWD03 menu  
resp\_err  
BCASupload: solicitation\_number: 93TM026

Here the gateway script run *putuploads\_cron* was unable to get to a particular menu. The award will be requeued and another attempt will be made later.

---

5.1.7 Vendor Code Unknown

---

From: gatecmgr@gatecb.wpafb.af.mil (GATEC manager)  
Message-Id: <9307191358.AA06660@gatecb.wpafb.af.mil>  
To: gatecmgr@gatecb.wpafb.af.mil  
Subject: putuploads\_cron  
Status: O

putuploads\_cron: upload failed on cdf file /home/gatec2/tmp/BCASOAAa20565, continuing ...  
BCASupload: ----- program begins  
cmdargs  
login  
walkmenus  
menumove(17, BCAS)  
pfkey(17)  
substr(PQRSwxymtuvlqrsn, 0, 0)  
Menu: BCAS...start...end  
menumove(3, SUPSRV)  
pfkey(3)  
substr(PQRSwxymtuvlqrsn, 2, 2)  
Menu: SUPSRV...start...end  
menumove(8, AWDS)  
pfkey(8)  
substr(PQRSwxymtuvlqrsn, 7, 7)  
Menu: AWDS...start...end  
parsefields(/tmp/uploadcdf21919)  
Cannot open /dev/null (Error 0).  
gateway internal open bug detected and handled. Continuing ...  
checkvars

BCASupload: processing award piin 93MH728  
BCASupload: Awarding solicitation number: 93TK767  
attempting purchase order  
menumove(1, AWD01)  
pfkey(1)  
substr(PQRSwxymtuvlqrsn, 0, 0)  
Menu: AWD01...start...end  
upload  
fixfield(0U0N49S, 7)  
fixfield(1, 4)  
fixfield(93MH728, 7)  
fixfield(93JUL20, 7)  
fixfield(, 15)  
fixfield(Y, 1)  
fixfield(0301, 4)  
output :EXINSIGU :  
fixfield(N, 1)  
ixfield(, 3)

fixfield(c9b, 3)  
fixfield(G1D, 3)  
fixfield(N, 1)  
fixfield(N, 1)  
fixfield(N, 1)  
menumove(0, AWD02)  
Menu: AWD02...Timeout!  
BCASupload: did not reach AWD02 menu  
resp\_err  
BCASupload: vendor\_bcas\_code: 0U0N49S  
BCASupload: BCAS reports vendor\_bcas\_code error: NOT ON FILE  
BCASupload: upload probably failed for input file /tmp/uploadcdf21919  
back2AWD01  
pfkey(1)

Here, the vendor code is unknown. The buyer will have to retry.

---

#### 5.1.8 Improper Data in Discount Days Field

---

From: gatecmgr@gatecb.wpafb.af.mil (GATEC manager)  
Message-Id: <9307191358.AA06660@gatecb.wpafb.af.mil>  
To: gatecmgr@gatecb.wpafb.af.mil  
Subject: putuploads\_cron  
Status: O

.  
.  
attempting purchase order  
menumove(1, AWD01)  
pfkey(1)  
substr(PQRSwxymtuvwqrsn, 0, 0)  
Menu: AWD01...start...end  
upload  
fixfield(759409S, 7)  
fixfield(1, 4)  
fixfield(93MH713, 7)  
fixfield(93JUL20, 7)  
fixfield(, 15)  
fixfield(Y, 1)  
fixfield(0301, 4)  
output :EXINSIGU :  
fixfield(N, 1)  
fixfield(, 3)  
fixfield(c9e, 3)  
fixfield(G1T, 3)  
fixfield(N, 1)  
fixfield(N, 1)  
fixfield(N, 1)

```

menumove(0, AWD02)
Menu: AWD02...start...end
fixfield(93TL090, 7)
fixfield(0002, 4)
menumove(0, AWD03)
Menu: AWD03...start...end
Timeout!
fixfield(0.000, 6)
fixfield(10, 2)
fixfield(30, 2)
fixfield(D, 1)
fixfield(, 32)
fixfield(93AUG17, 7)
fixfield(00001, 5)
fixfield(, 1)
fixfield(49.3900, 16)
fixfield(, 2)
order_output :
fixfield(N, 1)
fixfield(, 3)
menumove(0, AWD02)
Menu: AWD02...Timeout!
BCASupload: did not reach AWD02 menu
resp_err
Undefined variable `discount'.
BCASupload: discount: 0
BCASupload: BCAS reports discount error: % MUST BE > 0 IF DAYS > 0
BCASupload: upload probably failed for input file /tmp/uploadcdf21919

```

Here, the discount days field as improperly specified. The buyer will have to try and re-award.

---

#### 5.1.9 RFQ Not Found

---

```

From: gatecmgr@gatecb.wpafb.af.mil (GATEC manager)
Message-Id: <9307191358.AA06660@gatecb.wpafb.af.mil>
To: gatecmgr@gatecb.wpafb.af.mil
Subject: putuploads_cron
Status: O

```

```

.
.
output :EXINSIGU
fixfield(N, 1)
fixfield(, 3)
fixfield(c9e, 3)
fixfield(G1H, 3)
fixfield(N, 1)

```

fixfield(N, 1)  
fixfield(N, 1)  
menumove(0, AWD02)  
Menu: AWD02...start...end  
fixfield(93TL932, 7)  
fixfield(0002, 4)  
menumove(0, AWD03)  
Menu: AWD03...Timeout!  
BCASupload: did not reach AWD03 menu  
resp\_err  
BCASupload: solicitation\_number: 93TL932  
BCASupload: BCAS reports solicitation\_number error: NOT ON OPENPR FILE  
BCASupload: upload failed for input file /tmp/uploadcdf1881  
back2AWD01  
pfkey(1)

Here the RFQ can't be found. This usually means that the RFQ has already been awarded in BCAS, but for some reason the GATEC database has not been updated to reflect this. In this case, the operator may be required to use *sqlplus* to update the acquisition table so the document can be moved from CLOSED to AWARDED on the buyer's workload screen. See Section 4.6. The Lead Buyer application also has the capability of moving the document to closed. See *Lead Buyer User's Guide*.

---

#### 5.1.10 Unable to Get to Desired Menu

---

From: gatecmgr@gatecb.wpafb.af.mil (GATEC manager)  
Message-Id: <9307191358.AA06660@gatecb.wpafb.af.mil>  
To: gatecmgr@gatecb.wpafb.af.mil  
Subject: putuploads\_cron  
Status: O

.  
.  
fixfield(G1H, 3)  
fixfield(N, 1)  
fixfield(N, 1)  
fixfield(N, 1)  
menumove(0, AWD02)  
Menu: AWD02...start...end  
fixfield(93TL929, 7)  
fixfield(0001, 4)  
menumove(0, AWD03)  
Menu: AWD03...Timeout!  
BCASupload: did not reach AWD03 menu  
resp\_err  
BCASupload: solicitation\_number: 93TL929

BCASupload: BCAS reports solicitation\_number error: Unknown error  
BCASupload: upload failed for input file /tmp/uploadcdf1881  
back2AWD01  
pfkey(1)  
substr(PQRSwxymtuvlqrsn, 0, 0)  
pfkey(1)  
substr(PQRSwxymtuvlqrsn, 0, 0)

Sometimes the actual error cannot be identified. In this case the buyer must carefully review the parameters used in the award to access the error condition.

---

#### 5.1.11 putupload\_cron Completion Message

---

After *putuploads\_cron* has finished executing (either due to an encountered error or all items in the queue being processed), it will mail a summary file of its activities to the gatecmgr. An example of one is shown below:

SUBJECT : Output from "cron" command  
SENT BY : root@gatecb.wpafb.af.mil (Operator gatecb)  
DATED : 13 Dec 1993 at 1644 EST  
SENT TO : gatecmgr@gatecb.wpafb.af.mil  
STATUS : old, read

Your "cron" job

/home/gatec2/bin/putuploads\_cron

produced the following output:

773 item(s) on the queue.

%award\_piin 94MA792  
%UTNNumber F3360194T5325001  
upload succeeded for BCASMBAA02793  
774 item(s) on the queue.

%award\_piin 94MA804  
%UTNNumber F3360194T5302001  
upload succeeded for BCASXAA04054  
774 item(s) on the queue.

%award\_piin 94MA806  
%UTNNumber F3360194T5309001  
upload succeeded for BCASDBAA04054  
773 item(s) on the queue.

%award\_piin 94MA791  
%UTNNumber F3360194T4604001  
upload succeeded for BCASWCAa01825  
772 item(s) on the queue.

%award\_piin 94MA790  
%UTNNumber F3360194T4602001  
upload succeeded for BCASTCAa01825  
771 item(s) on the queue.

%award\_piin 94MA789  
%UTNNumber F3360194T5078001  
upload succeeded for BCASGBAa02793  
770 item(s) on the queue.

%award\_piin 94MA787  
%UTNNumber F3360194T4599001  
upload succeeded for BCASPCAa01825  
769 item(s) on the queue.

%award\_piin 94MA361  
%UTNNumber F3360194T3852003  
upload succeeded for BCASFEEa13198  
768 item(s) on the queue.

%award\_piin 94MA360  
%UTNNumber F3360194T3852006  
upload succeeded for BCASCEAa13198  
767 item(s) on the queue.

%award\_piin 94MA359  
%UTNNumber F3360194T5281001  
upload succeeded for BCASBGAA15949  
766 item(s) on the queue.

%award\_piin 94MA357  
%UTNNumber F3360194T3852004

In this particular case the bcasupload queue was very filled. The last entry in the file is the last file processed before either an error condition occurred (as in this case, since "upload succeeded" is not under the UTN), or all files on the queue were processed.

---

## 5.2 Typical *getopr\_bsp\_cron3* Diagnostic Messages

---

Errors are very rare from the *getopr\_bsp\_cron3* cron. These messages are not available for viewing by buyers in the GATEC

application; instead, they must be viewed by reviewing the gatecmgr mail box.

---

### 5.2.1 No New Open Purchase Request

---

SUBJECT : Output from "cron" command  
SENT BY : root@gatecb.wpafb.af.mil (Operator gatecb)  
DATED : 9 Dec 1993 at 2011 EST  
SENT TO : gatecmgr@gatecb.wpafb.af.mil  
STATUS : old, read

Your "cron" job

nice /home/gatec2/bin/getopr\_bsp\_cron3

produced the following output:

Thu Dec 9 20:05:01 EST 1993  
getting OPR  
Connecting to host wpwan08.wpafb.af.mil ...  
Download successful of file OPR  
recreating preopr table  
Thu Dec 9 20:09:36 EST 1993  
Thu Dec 9 20:11:12 EST 1993

No new Open Purchase Requests at this time

The most typical problem is no new RFQs to download.

---

### 5.2.2 *getopr\_bsp\_cron3* Inability to Connect to BCAS

---

Another common failure is an inability to connect to BCAS. The typical messages received indicating this condition are shown below,

SUBJECT : Output from "cron" command  
SENT BY : root@gatecb.wpafb.af.mil (Operator gatecb)  
DATED : 10 Dec 1993 at 1205 EST  
SENT TO : gatecmgr@gatecb.wpafb.af.mil  
STATUS : old, read

Your "cron" job

nice /home/gatec2/bin/getopr\_bsp\_cron3



produced the following output:

```
Fri Dec 10 12:05:00 EST 1993
BCASrunproc: ----- program begins
BCASrunproc: 'LOGON INHIBITED'
BCASrunproc: couldn't log in to BCAS processor at wpwan08.wpafb.af.mil
BCASrunproc: ----- program terminates
/home/gatec2/bin/getwangfiles: BCASrunproc exited non-zero
/home/gatec2/bin/getwangfiles: cannot generate files (wang unavailable?)
getopr_bsp_cron3: getwangfiles failed
```

```
SUBJECT : Output from "cron" command
SENT BY : root@gatecb.wpafb.af.mil (Operator gatecb)
DATED   : 10 Dec 1993 at 1505 EST
SENT TO : gatecmgr@gatecb.wpafb.af.mil
STATUS  : old, read
```

Your "cron" job

```
nice /home/gatec2/bin/getopr_bsp_cron3
```

produced the following output:

```
Fri Dec 10 15:05:00 EST 1993
BCASrunproc: ----- program begins
BCASrunproc: no telnet sessions available on BCAS
BCASrunproc: couldn't log in to BCAS processor at wpwan08.wpafb.af.mil
BCASrunproc: ----- program terminates
/home/gatec2/bin/getwangfiles: BCASrunproc exited non-zero
/home/gatec2/bin/getwangfiles: cannot generate files (wang unavailable?)
getopr_bsp_cron3: getwangfiles failed
```

---

### 5.2.3 *getopr\_bsp\_cron3* Success Message

---

Typically, one will see success messages from *getopr\_bsp\_cron3*. An example of mail sent as a result of a successful download is shown below,

```
SUBJECT : Output from "cron" command
SENT BY : root@gatecb.wpafb.af.mil (Operator gatecb)
DATED   : 16 Dec 1993 at 0913 EST
SENT TO : gatecmgr@gatecb.wpafb.af.mil
STATUS  : old, not read
```

Your "cron" job

```
nice /home/gatec2/bin/getopr_bsp_cron3
```

produced the following output:

```
Thu Dec 16 09:05:01 EST 1993
getting OPR
Connecting to host wpwan08.wpafb.af.mil ...
Download successful of file OPR
recreating preopr table
Thu Dec 16 09:10:29 EST 1993
Thu Dec 16 09:12:17 EST 1993
getting item and nomenclature files from BCAS
getting ITEM
Connecting to host wpwan08.wpafb.af.mil ...
Download successful of file ITEM
getting NOME
Connecting to host wpwan08.wpafb.af.mil ...
Download successful of file NOME
```

7 rows created.

```
CE fund code check disabled
Site Address = F33601
matched item...1.2.3.4.5.6.7.8.records committed.
matched item...1.2.3.4.5.6.7.8.records committed.
matched item...1.2.3.4.5.6.7.8.records committed.
matched item...1.2.3.4.5.6.7.8.records committed.
matched item...1.2.3.4.5.6.7.8.records committed.
matched item...1.2.3.4.5.6.7.8.records committed.
matched item...1.2.3.4.5.6.7.8.records committed.
```

No more Open Purchase Requests at this time

---

### 5.3 *getstmntship\_cron* Diagnostic Messages

---

This cron is typically not run very frequently. It updates certain database tables in the GATEC database with BCAS data that does not change very often (i.e., shipping, statement, accounting and vendor information).

---

#### 5.3.1 *getstmntship\_cron* Inability to Connect to BCAS

---

Another common failure is an inability to connect to BCAS. The typical messages received indicating this condition are shown below,

SUBJECT : Output from "cron" command  
SENT BY : root@gatecb.wpafb.af.mil (Operator gatecb)  
DATED : 15 Dec 1993 at 1210 EST  
SENT TO : gatecmgr@gatecb.wpafb.af.mil  
STATUS : old, read

Your "cron" job

nice /home/gatec2/bin/getstmntship\_cron

produced the following output:

Fri Dec 15 12:10:00 EST 1993  
BCASrunproc: ----- program begins  
BCASrunproc: 'LOGON INHIBITED'  
BCASrunproc: couldn't log in to BCAS processor at wpwan08.wpafb.af.mil  
BCASrunproc: ----- program terminates  
/home/gatec2/bin/getwangfiles: BCASrunproc exited non-zero  
/home/gatec2/bin/getwangfiles: cannot generate files (wang unavailable?)  
getopr\_bsp\_cron3: getwangfiles failed

SUBJECT : Output from "cron" command  
SENT BY : root@gatecb.wpafb.af.mil (Operator gatecb)  
DATED : 17 Dec 1993 at 2005 EST  
SENT TO : gatecmgr@gatecb.wpafb.af.mil  
STATUS : old, read

Your "cron" job

nice /home/gatec2/bin/getstmntship\_cron

produced the following output:

Fri Dec 17 20:05:00 EST 1993  
BCASrunproc: ----- program begins  
BCASrunproc: no telnet sessions available on BCAS  
BCASrunproc: couldn't log in to BCAS processor at wpwan08.wpafb.af.mil  
BCASrunproc: ----- program terminates  
/home/gatec2/bin/getwangfiles: BCASrunproc exited non-zero  
/home/gatec2/bin/getwangfiles: cannot generate files (wang unavailable?)  
getopr\_bsp\_cron3: getwangfiles failed

---

### 5.3.2 *getstmntship\_cron* Success Message

---

An example of mail sent as a result of a successful download of the shipping, statement, accounting, and vendor information is shown below,

SUBJECT : Output from "cron" command  
SENT BY : root@gatecb.wpafb.af.mil (Operator gatecb)  
DATED : 22 Dec 1993 at 1117 EST  
SENT TO : gatecmgr@gatecb.wpafb.af.mil  
STATUS : old, not read

Your "cron" job

nice /home/gatec2/bin/getstmntship\_cron

produced the following output:

Thu Dec 22 11:05:01 EST 1993  
getting ship  
Connecting to host wpwan08.wpafb.af.mil ...  
Download successful of file SHIP  
getting stmnt  
Connecting to host wpwan08.wpafb.af.mil ...  
Download successful of file STMNT  
getting acctg  
Connecting to host wpwan08.wpafb.af.mil ...  
Download successful of file ACCTG  
getting vadr  
Connecting to host wpwan08.wpafb.af.mil ...  
Download successful of file VADRS  
getting bcnst  
Connecting to host wpwan08.wpafb.af.mil ...  
Download successful of file BCNST  
Thu Dec 22 11:16:41 EST 1993

---

## 5.4 *upload\_bcas\_item\_desc\_cron* Diagnostic Messages

---

The item description upload errors are not attached as messages to RFQs. They are only sent to the gatecmgr. This is because it really isn't that important if some fail. The next time the item description is used in an RFQ, the buyer has another chance to edit the description. Since true errors (i.e. caused by improper line length) are so rare, there was little reason to expend the effort for the buyer notification.

---

### 5.4.1 *upload\_bcas\_item\_desc\_cron* Improper CDF Line Length

---

At the end of one or two week intervals, the operator may wish to examine the /home/bcas/item error directories on the Database Machine and manually correct and requeue the error files. Usually

the diagnostic error messages don't even need to be consulted. That is, when an error is detected, 99% of the time the error is caused by the improper line length. Legal line sizes are discussed in the *GATEC2 Internal Software Description Document* [REF016] section on Interface to Legacy System. But briefly, the *descriptionXX* lines (see CDF file below) can have a max length of 40 characters, the manufacturer name 30 characters, and the part number 20 characters. Typical diagnostic error messages are shown below. In the first example the first description line (description01) exceeds the maximum allowed number of characters.

From: gatecmgr@gatecb.wpafb.af.mil (GATEC manager)  
Message-Id: <9307161739.AA05202@gatecb.wpafb.af.mil>  
To: gatecmgr@tis.llnl.gov  
Subject: upload\_bcas\_item\_desc\_cron  
Status: O

Fri Jul 16 13:39:55 EDT 1993 ./upload\_bcas\_item\_desc\_cron: cdf\_check failed on item num.  
8315P14835; file name /usr/tmp/baaa00736  
/home/gatec2/bin/cdf\_check: SNAP, FASTENER, HARD PRESS TOOL, AND PART  
: does not match :^\s+[\S ]{1,40}\$: at line:  
description01 SNAP, FASTENER, HARD PRESS TOOL, AND PART

common data format has 1 syntax error

```
%Xbegin
%Xpurpose    item upload
%Xfilename    ITEM CDF
%Xdestination_host  gatec.oui
%Xversion     2.4
%Xdate 93 07 16
%stock_number 8315P14835
%suffix
%unit_of_issue
%bsp
%primary_customer
%variation
%automatic_po
%brand_name_sole_source
%commodity_assignment
%manufacturers_name  AU-VE-CO
%manufacturers_partno 14835
%description01 SNAP, FASTENER, HARD PRESS TOOL, AND PART
%description02 7677,14929,14830, SOCKET 7678; STUD 7629
%description03 AND EYELET 7682; ALLOWS USER TO INSTALL
%description04 VARIOUS SIZED SNAPS TO FABRICS, CANVAS,
%description05 MFR: AU-VE-CO
%description06 P/N: 14835
```

This is the most common error in item uploads, a line exceeding its maximum allowed length. To remedy the situation the item

description needs to be re-edited, then the file can be manually  
requeued for upload, i.e.,

```
qadditem bcasitem "8315P14835" "/var/tmp/baaa00736
```

Another example is shown below in which the maximum number  
of characters allowed for the manufacturers part number field  
(manufacturers\_partno) has been exceeded.

From: gatecmgr@gatecb.wpafb.af.mil (GATEC manager)  
Message-Id: <9307202230.AA01674@gatecb.wpafb.af.mil>  
To: gatecmgr@tis.llnl.gov  
Subject: upload\_bcas\_item\_desc\_cron  
Status: O

```
Tue Jul 20 18:30:14 EDT 1993 /home/gatec2/bin/upload_bcas_item_desc_cron: cdf_check failed
on item num. 5660LAB913Q; file name /usr/tmp/abaa29035
/home/gatec2/bin/cdf_check:  SS20 8'L X 3" OD GALV.
: does not match :^\s+[\S ]{1,20}$: at line:
manufacturers_partno  SS20 8'L X 3" OD GALV.
```

common data format has 1 syntax error

```
%Xbegin
%Xpurpose    item upload
%Xfilename    ITEM CDF
%Xdestination_host  gatec.dui
%Xversion     2.4
%Xdate  93 07 20
%stock_number 5660LAB913Q
%suffix
%unit_of_issue
%bsp
%primary_customer
%variation
%automatic_po
%brand_name_sole_source
%commodity_assignment
%manufacturers_name  D&D WHOLESALE FENCE SUPPLY
%manufacturers_partno  SS20 8'L X 3" OD GALV.
%description01  POST TYPE FENCE LENGTH 8' DIAMETER 3"OD
%description02  MATERIAL GALVANIZED LIGHT INDUSTRIAL
%description03  GRADE SS20
%description04  MFR: D&D WHOLESALE FENCE SUPPLY
%description05  P/N: SS20 8'L X 3" OD GALV.
%description06
%description07
%description08
%description09
```

---

### 5.4.2 *upload\_bcas\_item\_desc\_cron* Unexpected BCAS Menu

---

Another common error is ending up on a different screen than expected. This is a known BCAS quirk, *upload\_bcas\_item\_desc\_cron* will requeue the file and try again later.

From: gatecmgr@gatecb.wpafb.af.mil (GATEC manager)  
Message-Id: <9307202341.AA02912@gatecb.wpafb.af.mil>  
To: gatecmgr@gatecb.wpafb.af.mil, kal@tis.llnl.gov  
Subject: item upload error summary  
Status: O

```
*****  
Begin item upload attempt  
*****  
Processing file /usr/tmp/abaa16651  
parsefields successful  
Attempting to connect  
connection successful  
On an unexpected screen BCAS DISCONNECT  
%Xbegin  
%Xpurpose      item upload  
%Xfilename     ITEM CDF  
%Xdestination_host gatec.dui  
%Xversion      2.4
```

---

### 5.4.3 *upload\_bcas\_item\_desc\_cron* Summary Message

---

After each item upload session, a summary mail message is mailed to the gatecmgr. A sample message looks like the following,

From: gatecmgr@gatecb.wpafb.af.mil (GATEC manager)  
Message-Id: <9309241409.AA19500@gatecb.wpafb.af.mil>  
To: gatecmgr@tis.llnl.gov  
Subject: Final item upload summary  
Status: O

\*\*\*\*\*

Item Upload Summary file for cron run at Fri Sep 24 10:05:01 EDT 1993

Fri Sep 24 10:06:13 EDT 1993 item upload succeeded for file /usr/tmp/aaaa15025; item num. 8040LAC098T

Fri Sep 24 10:07:10 EDT 1993 item upload succeeded for file /usr/tmp/aaaa14768; item num.

6550L930001

Fri Sep 24 10:09:31 EDT 1993 item upload succeeded for file /usr/tmp/aaaa14489; item num. 7360L100020

Fri Sep 24 10:09:49 EDT 1993 /home/gatec2/bin/upload\_bcas\_item\_desc\_cron: BCAS down will requeue and exit; /usr/tmp/baaa18626; item num. 6135P0262832300

A summary of all item uploads is placed in the file /home/bcas/item\_upload\_trace on the Database Machine. A summary of all item upload errors is placed in the file /home/bcas/item\_upload\_errors on the Database Machine. Diagnostic gateway output for all item upload transactions is dumped in the file /home/bcas/item-upload-record on the Database Machine. This file should periodically be removed, then touched so its size doesn't get too large.

A session debug file for each item upload is also written out into the /tmp directory on the database machine. The file name is of the form:

<month>-<date>-<year>-<hour>-<minute>-<second>-item-log

These files should be periodically removed from /tmp.

---

## 5.5 *upload\_bcas\_cancel\_award\_cron* Diagnostic Messages

---

Cancel award upload errors are not attached as messages to RFQs. They are only sent to the gatecmgr. This is because buyers would likely never be able to identify that an error condition existed on an awarded document. This is because a buyer's AWARDED list on their workload screen is typically very large. Since only 25 or so RFQ's numbers can be viewed at a time in the AWARDED list, the likelihood of having a RFQ that had experienced a cancel award failure displayed is very slim.

There are many possibilities for cancel award failure. Since award cancellation does not happen that frequently, there are really no "common" errors except for the typical problems of not being able to connect to BCAS. The following errors can be considered "possible" to occur.

---

### 5.5.1 Award Piin Not Loaded

---

The indicated award piin in is no longer loaded in BCAS. This typically implies that the piin number for the award is wrong in GATEC. This problem should be referred to a system analyst.



SUBJECT : Cancel award error summary  
SENT BY : gatecmgr@gatecb.wpafb.af.mil (Operator gatecb)  
DATED : 05 Dec 1993 at 1117 EST  
SENT TO : gatecmgr@gatecb.wpafb.af.mil, kal@tis.llnl.gov  
STATUS : new, not read

\*\*\*\*\*

Begin cancel upload attempt

\*\*\*\*\*

Processing file /usr/tmp/aaaa30250  
parsefields successful  
Attempting to connect  
On system admin screen  
On BCAS MENU screen  
On CONTRACT ADMINISTRATION screen  
On MODIFICATION MENU screen  
On MODIFICATION ACTION screen  
Inputting piin number of 94P1289  
Successful input of piin number  
Now inputting supp piin of  
Successful input of supp piin number  
Now inputting activity number of  
Successful input of activity no.  
Now inputting buyer code of G1R  
Successful input of cac  
Now inputting modification reason of T  
Successful input of mod reason  
Now inputting effective date of  
Successful input of effective date 93NOV30  
Now inputting f/t/d of F  
Successful input of f/t/d  
Now inputting contractor sign of N  
Successful input of contractor sign  
Now inputting number copies of  
Successful input of number of copies  
Now inputting suspense date of  
Successful input of suspense date  
Now inputting cancel order entirely of Y  
Successful input of cancel entirely  
Now inputting cancel prs to customer of  
Successful input of cancel prs to customer  
Now inputting with reopen prs of N  
Successful input of with reopen prs  
Now inputting order statement 1 of  
Successful input of order statement 1  
Now inputting order statement 2 of  
Successful input of order statement 2  
Now inputting order statement 3 of  
Successful input of order statement 3  
Now inputting order statement 4 of

Successful input of order statement 4  
Now inputting order statement 5 of  
Successful input of order statement 5  
Now inputting order statement 6 of  
Successful input of order statement 6  
Now inputting order statement 7 of  
Successful input of order statement 7  
Now inputting order statement 8 of  
Successful input of order statement 8  
Now inputting order statement 9 of  
Successful input of order statement 9  
Now inputting order statement 10 of  
Successful input of order statement 10  
Now inputting special prep of N  
Successful input of special prep  
Award piin not loaded; will exit

---

### 5.5.2 Item Delivered Cannot Cancel

---

The item in question has already been delivered. Thus, the award cannot be canceled using this mechanism.

SUBJECT : Cancel award error summary  
SENT BY : gatecmgr@gatecb.wpafb.af.mil (Operator gatecb)  
DATED : 10 Dec 1993 at 1417 EST  
SENT TO : gatecmgr@gatecb.wpafb.af.mil, kal@tis.llnl.gov  
STATUS : new, not read

\*\*\*\*\*

Begin cancel upload attempt

\*\*\*\*\*

Processing file /usr/tmp/eaal10250  
parsefields successful  
Attempting to connect  
On system admin screen  
On BCAS MENU screen  
On CONTRACT ADMINISTRATION screen  
On MODIFICATION MENU screen  
On MODIFICATION ACTION screen  
Inputting piin number of 94P1220  
Successful input of piin number  
Now inputting supp piin of  
Successful input of supp piin number  
Now inputting activity number of  
Successful input of activity no.  
Now inputting buyer code of G1R  
Successful input of cac  
Now inputting modification reason of T

Successful input of mod reason  
Now inputting effective date of  
Successful input of effective date 93NOV30  
Now inputting f/t/d of F  
Successful input of f/t/d  
Now inputting contractor sign of N  
Successful input of contractor sign  
Now inputting number copies of  
Successful input of number of copies  
Now inputting suspense date of  
Successful input of suspense date  
Now inputting cancel order entirely of Y  
Successful input of cancel entirely  
Now inputting cancel prs to customer of  
Successful input of cancel prs to customer  
Now inputting with reopen prs of N  
Successful input of with reopen prs  
Now inputting order statement 1 of  
Successful input of order statement 1  
Now inputting order statement 2 of  
Successful input of order statement 2  
Now inputting order statement 3 of  
Successful input of order statement 3  
Now inputting order statement 4 of  
Successful input of order statement 4  
Now inputting order statement 5 of  
Successful input of order statement 5  
Now inputting order statement 6 of  
Successful input of order statement 6  
Now inputting order statement 7 of  
Successful input of order statement 7  
Now inputting order statement 8 of  
Successful input of order statement 8  
Now inputting order statement 9 of  
Successful input of order statement 9  
Now inputting order statement 10 of  
Successful input of order statement 10  
Now inputting special prep of N  
Successful input of special prep  
Item delivered; cannot cancel

---

### 5.5.3 Field Cannot be Blank

---

A key parameter was not specified by the buyer. This error typically involves the responses made in the BSP (CAC) or Suspense Date dialog boxes. A BCAS expert on award cancellation should be consulted to resolve the difficulty, then the cancellation should be attempted again.

SUBJECT : Cancel award error summary  
SENT BY : gatecmgr@gatecb.wpafb.af.mil (Operator gatecb)  
DATED : 11 Dec 1993 at 1017 EST  
SENT TO : gatecmgr@gatecb.wpafb.af.mil, kal@tis.llnl.gov  
STATUS : new, not read

\*\*\*\*\*

Begin cancel upload attempt

\*\*\*\*\*

Processing file /usr/tmp/eata20250  
parsefields successful  
Attempting to connect  
On system admin screen  
On BCAS MENU screen  
On CONTRACT ADMINISTRATION screen  
On MODIFICATION MENU screen  
On MODIFICATION ACTION screen  
Inputting piin number of 94P1589  
Successful input of piin number  
Now inputting supp piin of  
Successful input of supp piin number  
Now inputting activity number of  
Successful input of activity no.  
Now inputting buyer code of G1R  
Successful input of cac  
Now inputting modification reason of T  
Successful input of mod reason  
Now inputting effective date of  
Successful input of effective date 93DEC11  
Now inputting f/t/d of D  
Successful input of f/t/d  
Now inputting contractor sign of N  
Successful input of contractor sign  
Now inputting number copies of  
Successful input of number of copies  
Now inputting suspense date of  
Successful input of suspense date  
Now inputting cancel order entirely of Y  
Successful input of cancel entirely  
Now inputting cancel prs to customer of  
Successful input of cancel prs to customer  
Now inputting with reopen prs of N  
Successful input of with reopen prs  
Now inputting order statement 1 of  
Successful input of order statement 1  
Now inputting order statement 2 of  
Successful input of order statement 2  
Now inputting order statement 3 of  
Successful input of order statement 3  
Now inputting order statement 4 of

Successful input of order statement 4  
Now inputting order statement 5 of  
Successful input of order statement 5  
Now inputting order statement 6 of  
Successful input of order statement 6  
Now inputting order statement 7 of  
Successful input of order statement 7  
Now inputting order statement 8 of  
Successful input of order statement 8  
Now inputting order statement 9 of  
Successful input of order statement 9  
Now inputting order statement 10 of  
Successful input of order statement 10  
Now inputting special prep of N  
Successful input of special prep  
Field cannot be blank

---

#### 5.5.4 Contractor Sign Should be N When T Used

---

This error involves an inappropriate response in the Contractor Sign Dialog Box. A BCAS cancel award expert should be consulted to resolve the difficulty

SUBJECT : Cancel award error summary  
SENT BY : gatecmgr@gatecb.wpafb.af.mil (Operator gatecb)  
DATED : 19 Dec 1993 at 1917 EST  
SENT TO : gatecmgr@gatecb.wpafb.af.mil, kal@tis.llnl.gov  
STATUS : new, not read

\*\*\*\*\*

Begin cancel upload attempt

\*\*\*\*\*

Processing file /usr/tmp/ejka20250

parsefields successful

Attempting to connect

On system admin screen

On BCAS MENU screen

On CONTRACT ADMINISTRATION screen

On MODIFICATION MENU screen

On MODIFICATION ACTION screen

Inputting piin number of 94P1080

Successful input of piin number

Now inputting supp piin of

Successful input of supp piin number

Now inputting activity number of

Successful input of activity no.

Now inputting buyer code of G1R

Successful input of cac

Now inputting modification reason of T  
Successful input of mod reason  
Now inputting effective date of  
Successful input of effective date 93DEC19  
Now inputting f/t/d of T  
Successful input of f/t/d  
Now inputting contractor sign of Y  
Successful input of contractor sign  
Now inputting number copies of  
Successful input of number of copies  
Now inputting suspense date of  
Successful input of suspense date  
Now inputting cancel order entirely of Y  
Successful input of cancel entirely  
Now inputting cancel prs to customer of  
Successful input of cancel prs to customer  
Now inputting with reopen prs of N  
Successful input of with reopen prs  
Now inputting order statement 1 of  
Successful input of order statement 1  
Now inputting order statement 2 of  
Successful input of order statement 2  
Now inputting order statement 3 of  
Successful input of order statement 3  
Now inputting order statement 4 of  
Successful input of order statement 4  
Now inputting order statement 5 of  
Successful input of order statement 5  
Now inputting order statement 6 of  
Successful input of order statement 6  
Now inputting order statement 7 of  
Successful input of order statement 7  
Now inputting order statement 8 of  
Successful input of order statement 8  
Now inputting order statement 9 of  
Successful input of order statement 9  
Now inputting order statement 10 of  
Successful input of order statement 10  
Now inputting special prep of N  
Successful input of special prep  
Contractor sign should be N when T used

---

#### 5.5.5 Field Must be Y or N

---

A field had an illegal response. The error message is position dependent on the BCAS screen, so determining the actual field that had the illegal value can be difficult. However, the error can only be reported for the following Dialog Boxes on the CANCEL

AWARD screen,

Contractor Sign  
Cancel PRS to Customer  
With Reopen PRS

SUBJECT : Cancel award error summary  
SENT BY : gatecmgr@gatecb.wpafb.af.mil (Operator gatecb)  
DATED : 10 Dec 1993 at 1417 EST  
SENT TO : gatecmgr@gatecb.wpafb.af.mil, kal@tis.llnl.gov  
STATUS : new, not read

\*\*\*\*\*

Begin cancel upload attempt

\*\*\*\*\*

Processing file /usr/tmp/eaza20250  
parsefields successful  
Attempting to connect  
On system admin screen  
On BCAS MENU screen  
On CONTRACT ADMINISTRATION screen  
On MODIFICATION MENU screen  
On MODIFICATION ACTION screen  
Inputting piin number of 94P1989  
Successful input of piin number  
Now inputting supp piin of  
Successful input of supp piin number  
Now inputting activity number of  
Successful input of activity no.  
Now inputting buyer code of G1R  
Successful input of cac  
Now inputting modification reason of T  
Successful input of mod reason  
Now inputting effective date of  
Successful input of effective date 93DEC10  
Now inputting f/t/d of F  
Successful input of f/t/d  
Now inputting contractor sign of  
Successful input of contractor sign  
Now inputting number copies of  
Successful input of number of copies  
Now inputting suspense date of  
Successful input of suspense date  
Now inputting cancel order entirely of  
Successful input of cancel entirely  
Now inputting cancel prs to customer of  
Successful input of cancel prs to customer  
Now inputting with reopen prs of N  
Successful input of with reopen prs  
Now inputting order statement 1 of

Successful input of order statement 1  
Now inputting order statement 2 of  
Successful input of order statement 2  
Now inputting order statement 3 of  
Successful input of order statement 3  
Now inputting order statement 4 of  
Successful input of order statement 4  
Now inputting order statement 5 of  
Successful input of order statement 5  
Now inputting order statement 6 of  
Successful input of order statement 6  
Now inputting order statement 7 of  
Successful input of order statement 7  
Now inputting order statement 8 of  
Successful input of order statement 8  
Now inputting order statement 9 of  
Successful input of order statement 9  
Now inputting order statement 10 of  
Successful input of order statement 10  
Now inputting special prep of N  
Successful input of special prep  
Field must be Y or N

---

#### 5.5.6 Field Should be Blank

---

Typically this error implies that the Suspense Date Dialog Box should not have had a date specified in it for the type of cancellation which has been specified by the user.

SUBJECT : Cancel award error summary  
SENT BY : gatecmgr@gatecb.wpafb.af.mil (Operator gatecb)  
DATED : 04 Dec 1993 at 1817 EST  
SENT TO : gatecmgr@gatecb.wpafb.af.mil, kal@tis.llnl.gov  
STATUS : new, not read

\*\*\*\*\*  
Begin cancel upload attempt  
\*\*\*\*\*  
Processing file /usr/tmp/eaba20250  
parsefields successful  
Attempting to connect  
On system admin screen  
On BCAS MENU screen  
On CONTRACT ADMINISTRATION screen  
On MODIFICATION MENU screen  
On MODIFICATION ACTION screen  
Inputting piin number of 94P1189



Successful input of piin number  
Now inputting supp piin of  
Successful input of supp piin number  
Now inputting activity number of  
Successful input of activity no.  
Now inputting buyer code of G1R  
Successful input of cac  
Now inputting modification reason of T  
Successful input of mod reason  
Now inputting effective date of  
Successful input of effective date 93DEC04  
Now inputting f/t/d of F  
Successful input of f/t/d  
Now inputting contractor sign of N  
Successful input of contractor sign  
Now inputting number copies of  
Successful input of number of copies  
Now inputting suspense date of 93DEC28  
Successful input of suspense date  
Now inputting cancel order entirely of Y  
Successful input of cancel entirely  
Now inputting cancel prs to customer of  
Successful input of cancel prs to customer  
Now inputting with reopen prs of N  
Successful input of with reopen prs  
Now inputting order statement 1 of  
Successful input of order statement 1  
Now inputting order statement 2 of  
Successful input of order statement 2  
Now inputting order statement 3 of  
Successful input of order statement 3  
Now inputting order statement 4 of  
Successful input of order statement 4  
Now inputting order statement 5 of  
Successful input of order statement 5  
Now inputting order statement 6 of  
Successful input of order statement 6  
Now inputting order statement 7 of  
Successful input of order statement 7  
Now inputting order statement 8 of  
Successful input of order statement 8  
Now inputting order statement 9 of  
Successful input of order statement 9  
Now inputting order statement 10 of  
Successful input of order statement 10  
Now inputting special prep of N  
Successful input of special prep  
Since contr. sign was no; this field should be blank

---

5.5.7 Field Should be ALL or 1-6

---

SUBJECT : Cancel award error summary  
SENT BY : gatecmgr@gatecb.wpafb.af.mil (Operator gatecb)  
DATED : 07 Dec 1993 at 1817 EST  
SENT TO : gatecmgr@gatecb.wpafb.af.mil, kal@tis.llnl.gov  
STATUS : new, not read

This implies an illegal response in the "Number of Copies" dialog box on the cancel award screen.

\*\*\*\*\*

Begin cancel upload attempt

\*\*\*\*\*

Processing file /usr/tmp/eaba20250  
parsefields successful  
Attempting to connect  
On system admin screen  
On BCAS MENU screen  
On CONTRACT ADMINISTRATION screen  
On MODIFICATION MENU screen  
On MODIFICATION ACTION screen  
Inputting piin number of 94P1289  
Successful input of piin number  
Now inputting supp piin of  
Successful input of supp piin number  
Now inputting activity number of  
Successful input of activity no.  
Now inputting buyer code of G1R  
Successful input of cac  
Now inputting modification reason of T  
Successful input of mod reason  
Now inputting effective date of  
Successful input of effective date 93DEC07  
Now inputting f/t/d of F  
Successful input of f/t/d  
Now inputting contractor sign of Y  
Successful input of contractor sign  
Now inputting number copies of  
Successful input of number of copies 8  
Now inputting suspense date of  
Successful input of suspense date  
Now inputting cancel order entirely of Y  
Successful input of cancel entirely  
Now inputting cancel prs to customer of  
Successful input of cancel prs to customer  
Now inputting with reopen prs of N  
Successful input of with reopen prs

Now inputting order statement 1 of  
Successful input of order statement 1  
Now inputting order statement 2 of  
Successful input of order statement 2  
Now inputting order statement 3 of  
Successful input of order statement 3  
Now inputting order statement 4 of  
Successful input of order statement 4  
Now inputting order statement 5 of  
Successful input of order statement 5  
Now inputting order statement 6 of  
Successful input of order statement 6  
Now inputting order statement 7 of  
Successful input of order statement 7  
Now inputting order statement 8 of  
Successful input of order statement 8  
Now inputting order statement 9 of  
Successful input of order statement 9  
Now inputting order statement 10 of  
Successful input of order statement 10  
Now inputting special prep of N  
Successful input of special prep  
Since contr. sign was yes; this field should be ALL or 1-6

---

#### 5.5.8          Suspense Date Must be Input

---

SUBJECT : Cancel award error summary  
SENT BY : gatecmgr@gatecb.wpafb.af.mil (Operator gatecb)  
DATED : 29 Dec 1993 at 0917 EST  
SENT TO : gatecmgr@gatecb.wpafb.af.mil, kal@tis.llnl.gov  
STATUS : new, not read

For a draft, a suspense date must be input.

\*\*\*\*\*  
Begin cancel upload attempt  
\*\*\*\*\*  
Processing file /usr/tmp/ecba20250  
parsefields successful  
Attempting to connect  
On system admin screen  
On BCAS MENU screen  
On CONTRACT ADMINISTRATION screen  
On MODIFICATION MENU screen  
On MODIFICATION ACTION screen  
Inputting piin number of 94P1289  
Successful input of piin number  
Now inputting supp piin of

Successful input of supp piin number  
Now inputting activity number of  
Successful input of activity no.  
Now inputting buyer code of G1R  
Successful input of cac  
Now inputting modification reason of T  
Successful input of mod reason  
Now inputting effective date of  
Successful input of effective date 93DEC29  
Now inputting f/t/d of D  
Successful input of f/t/d  
Now inputting contractor sign of N  
Successful input of contractor sign  
Now inputting number copies of  
Successful input of number of copies  
Now inputting suspense date of  
Successful input of suspense date  
Now inputting cancel order entirely of Y  
Successful input of cancel entirely  
Now inputting cancel prs to customer of  
Successful input of cancel prs to customer  
Now inputting with reopen prs of N  
Successful input of with reopen prs  
Now inputting order statement 1 of  
Successful input of order statement 1  
Now inputting order statement 2 of  
Successful input of order statement 2  
Now inputting order statement 3 of  
Successful input of order statement 3  
Now inputting order statement 4 of  
Successful input of order statement 4  
Now inputting order statement 5 of  
Successful input of order statement 5  
Now inputting order statement 6 of  
Successful input of order statement 6  
Now inputting order statement 7 of  
Successful input of order statement 7  
Now inputting order statement 8 of  
Successful input of order statement 8  
Now inputting order statement 9 of  
Successful input of order statement 9  
Now inputting order statement 10 of  
Successful input of order statement 10  
Now inputting special prep of N  
Successful input of special prep  
Since draft, suspense date must be specified

---

5.5.9 Did Not Reach Begin Narrative Screen

---

A BCAS anomaly has prevented the *BCAScancelaward* script from reaching the BEGIN NARRATIVE BCAS screen. The file should be requeued.

SUBJECT : Cancel award error summary  
SENT BY : gatecmgr@gatecb.wpafb.af.mil (Operator gatecb)  
DATED : 20 Dec 1993 at 1117 EST  
SENT TO : gatecmgr@gatecb.wpafb.af.mil, kal@tis.llnl.gov  
STATUS : new, not read

\*\*\*\*\*  
Begin cancel upload attempt  
\*\*\*\*\*  
Processing file /usr/tmp/edba20250  
parsefields successful  
Attempting to connect  
On system admin screen  
On BCAS MENU screen  
On CONTRACT ADMINISTRATION screen  
On MODIFICATION MENU screen  
On MODIFICATION ACTION screen  
Inputting piin number of 94P1235  
Successful input of piin number  
Now inputting supp piin of  
Successful input of supp piin number  
Now inputting activity number of  
Successful input of activity no.  
Now inputting buyer code of G1R  
Successful input of cac  
Now inputting modification reason of T  
Successful input of mod reason  
Now inputting effective date of  
Successful input of effective date 93DEC20  
Now inputting f/t/d of F  
Successful input of f/t/d  
Now inputting contractor sign of N  
Successful input of contractor sign  
Now inputting number copies of  
Successful input of number of copies  
Now inputting suspense date of  
Successful input of suspense date  
Now inputting cancel order entirely of Y  
Successful input of cancel entirely  
Now inputting cancel prs to customer of  
Successful input of cancel prs to customer  
Now inputting with reopen prs of N

Successful input of with reopen prs  
Now inputting order statement 1 of  
Successful input of order statement 1  
Now inputting order statement 2 of  
Successful input of order statement 2  
Now inputting order statement 3 of  
Successful input of order statement 3  
Now inputting order statement 4 of  
Successful input of order statement 4  
Now inputting order statement 5 of  
Successful input of order statement 5  
Now inputting order statement 6 of  
Successful input of order statement 6  
Now inputting order statement 7 of  
Successful input of order statement 7  
Now inputting order statement 8 of  
Successful input of order statement 8  
Now inputting order statement 9 of  
Successful input of order statement 9  
Now inputting order statement 10 of  
Successful input of order statement 10  
Now inputting special prep of N  
Successful input of special prep  
Did not reach begin narrative screen

---

5.5.10      *upload\_bcas\_cancel\_award\_cron* Summary Message

---

After each cancel award session, a summary mail message is mailed to the gatecmgr. A sample message looks like the following,

From: gatecmgr@gatecb.wpafb.af.mil (GATEC manager)  
Message-Id: <9309241409.AA19500@gatecb.wpafb.af.mil>  
To: gatecmgr@tis.llnl.gov  
Subject: Final cancel award summary  
Status: O

\*\*\*\*\*

Cancel Award Summary file for cron run at Fri Nov 26 15:05:01 EDT 1993

Fri Nov 26 15:06:13 EDT 1993 cancel/amend award succeeded for file /usr/tmp/abaa15025; piin num. 94M2000  
Fri Nov 26 15:07:10 EDT 1993 cancel/amend award succeeded for file /usr/tmp/aaga14768; piin num. 94M2030  
Fri Nov 26 15:09:31 EDT 1993 cancel/amend award succeeded for file /usr/tmp/aata14489; piin num. 94M2004  
Fri Nov 26 15:09:49 EDT 1993 /home/gatec2/bin/upload\_bcas\_cancel\_award\_cron: BCAS down will requeue and exit; /usr/tmp/baaa18626; piin num. 94M2010

A summary of all cancel uploads is placed in the file /home/bcas/cancel\_award\_trace on the Database Machine. A summary of all cancel errors is placed in the file /home/bcas/cancel\_award\_errors on the Database Machine. Diagnostic gateway output for all cancel transactions is dumped in the file /home/bcas/cancel\_award\_record on the Database Machine. cancel\_award\_record should periodically be removed, then touched so its size doesn't get too large.

A session debug file for each cancel upload is also written out into the /tmp directory on the database machine. The file name is of the form:

<month>-<date>-<year>-<hour>-<minute>-<second>-cancel-log

---

## 5.6 843CDFtoDB Diagnostic Messages

---

The most common diagnostic message produced by *843CDFtoDB* is an indication that the database is down. The *inbound* script will requeue the quote and attempt to re-run *843DBtoCDF* at a later time. An example of the error message generated in this situation is shown below:

```
Date: Fri, 19 Mar 93 04:19:31 -0800
Message-Id: <9303191219.AA14530@yakuza.tis.llnl.gov>
X-Epm-Stub: Fri, 19 Mar 93 04:19:31 -0800
To: F33601@yakuza.tis.llnl.gov
Subject: 843:F3360193TC207001
>From: cole@yakuza.tis.llnl.gov

ISA*00*          *01*000000200 *ZZ*WORDTECH      *ZZ*GATEC
*930318*2126*U*00301*000092024*0*P*^
GS*RR*WORDTECH*GATEC*930318*2126*92025*X*003010
ST*843*001080001
BQR*00*F3360193TC207001*930311*098*930318*BI
N1*ZZ*WORD TECH*33*9T929
PO1*1*25*ST*30.14**FT*7530*SI*5943*SI*2675*SI*2677*SI*2678*SI*2761*SI*5112*SW
*7530P0047992300*MG*1201*MF*GEODEX
CTT*1*25
AMT*TT*753.50
SE*7*001080001
GE*1*92025
IEA*1*000092024
=====Original CDF=====
%Xbegin
%Xpurpose  quote
%Xdestination_host  bcas
```

```

%Xversion      2
%Xdate         3/22/93
%Xfilename     qte
%Document.UTNNumber  F3360193TC207001
%Document.DocumentType 843
%Quote.RFQRefNumber  F3360193TC207001
%Quote.RFQEffectiveDate 930311
%Quote.QuoteEffectiveDate 930318
%Quote.QuoteType  BI
%Quote.IsSmallBusiness  Y
%Quote.CageCode  9T929
%Quote.SellerName  WORD TECH
%QuoteLineItem.ItemNumber  0001
%QuoteLineItem.Quantity  25
%QuoteLineItem.UnitOfMeasure  ST
%QuoteLineItem.UnitPrice  30.14
%QuoteLineItem.FedStockClass  7530
%QuoteLineItem.StdIndustrialClass 5943
%QuoteLineItem.StdIndustrialClass 2675
%QuoteLineItem.StdIndustrialClass 2677
%QuoteLineItem.StdIndustrialClass 2678
%QuoteLineItem.StdIndustrialClass 2761
%QuoteLineItem.StdIndustrialClass 5112
%Part.PartIdentifier  SW
%Part.PartNumber  7530P0047992300
%Part.PartIdentifier  MG
%Part.PartNumber  1201
%Part.Manufacturer  GEODEX
%Xend

```

```

=====Trace output from 843CDFtoDB=====
843CDFtoDB(): Unable to connect to the database
ORA-01034: ORACLE not available
ORA-07318: smsget: open error when op

```

The other most common errors detected by *843DBtoCDF* is an identification of an illegal cage code or government password in the received 843 transaction. In these cases a special message to gatecmgr is not initiated since an 824 document will be sent back to the vendor noting the problem. These messages can be reviewed by searching for 824 messages in the archive mail box (located at /usr/spool/mail on the Transport Machine). Examples of such messages are shown below,

```

From gatec Fri Jan 7 00:03:00 1994
Return-Path: <gatec>
Received: by gatec.wpafb.af.mil (4.1/SMI-4.1)
       id AA16986; Fri, 7 Jan 94 00:02:57 EST
Date: Fri, 7 Jan 94 00:02:57 EST
From: gatec
Message-Id: <9401070502.AA16986@gatec.wpafb.af.mil>
To: <@ec099.llnl.gov:/O=EDIEXPRESS2-3/@sm2ge.llnl.gov>

```



Subject: 824:F3360194T6915001  
Status: N

ISA\*00\* \*00\* \*ZZ\*GATEC \*ZZ\*PUBLIC  
\*940107\*0003\*U\*00301\*000150109\*0\*P\*^  
GS\*AG\*GATEC\*KY72277\*940107\*0003\*150110\*X\*003010  
ST\*824\*150111  
BGN\*00\*F3360194T6915001\*940107\*0003  
OTI\*TR\*PR\*F3360194T6915001\*KY72277\*GATEC\*931227\*1438\*0075688\*0075688\*843  
REF\*65\*F3360194T6915001  
TED\*007\*[000001458] IS THE INCORRECT PASSWORD FOR [TMPT0633]  
SE\*6\*150111  
GE\*1\*150110  
IEA\*1\*000150109

From gatec Fri Jan 7 00:04:47 1994  
Return-Path: <gatec>  
Received: by gatec.wpafb.af.mil (4.1/SMI-4.1)  
id AA17362; Fri, 7 Jan 94 00:04:45 EST  
Date: Fri, 7 Jan 94 00:04:45 EST  
From: gatec  
Message-Id: <9401070504.AA17362@gatec.wpafb.af.mil>  
To: <@ec099.llnl.gov:/O=EDIEXPRESS2-3/@sm2ge.llnl.gov>  
Subject: 824:F3360194T6950001  
Status: N

ISA\*00\* \*00\* \*ZZ\*GATEC \*ZZ\*PUBLIC  
\*940107\*0005\*U\*00301\*000150112\*0\*P\*^  
GS\*AG\*GATEC\*KY36514\*940107\*0005\*150113\*X\*003010  
ST\*824\*150114  
BGN\*00\*F3360194T6950001\*940107\*0005  
OTI\*TR\*PR\*F3360194T6950001\*KY36514\*GATEC\*940103\*1256\*0076089\*0076089\*843  
REF\*65\*F3360194T6950001  
TED\*007\*[TMPT0460] IS NOT A VALID CAGE CODE  
SE\*6\*150114  
GE\*1\*150113  
IEA\*1\*000150112

All other *843CDFtoDB* failures would imply errors in the GATEC application software. They should be reported to a GATEC application engineer immediately for evaluation.

---

## 5.7 *864CDFtoDB* Diagnostic Messages

---

As with *843CDFtoDB*, the most common diagnostic message produced by *864CDFtoDB* is an indication that the database is down. The *inbound* script will requeue the quote and attempt to re-

run *864DBtoCDF* at a later time.

The other most common errors detected by *864DBtoCDF* is an identification of an illegal cage code or government password in the received 864 transaction. In these cases a special message to gatecmgr is not initiated since an 824 document will be sent back to the vendor noting the problem. These messages can be reviewed by searching for 824 messages in the archive mail box (located at /usr/spool/mail on the Transport Machine).

All other *864CDFtoDB* failures would imply errors in the GATEC application software. They should be reported to a GATEC application engineer immediately for evaluation.

---

## 5.8 *824CDFtoDB* Diagnostic Messages

---

As with *843CDFtoDB* and *864CDFtoDB*, the most common diagnostic message produced by *824CDFtoDB* is an indication that the database is down. The *inbound* script will requeue the quote and attempt to re-run *824DBtoCDF* at a later time.

All other *824CDFtoDB* failures would imply errors in the GATEC application software. They should be reported to a GATEC application engineer immediately for evaluation.

---

## 5.9 997 Diagnostic Messages

---

The GATEC 997 checker (a translation located on the Transport Machine at /home/gatec2/lib/gst/x12to997.3010) validates that incoming transactions have the correct syntax for their transaction type. One of the most common syntax errors detected on incoming transactions involve an improperly specified date. An example message is shown below,

Date: Thu, 6 Jan 94 23:33:55 EST  
From: daemon@gatec.wpafb.af.mil  
Message-Id: <9401070433.AA11371@gatec.wpafb.af.mil>  
To: gatecmgr@gatec.wpafb.af.mil  
Subject: diag: Failed syntax check  
Status: O

Original Message:  
>From hmgr@ec099.llnl.gov Thu Jan 6 22:25:38 1994  
Return-Path: <hmgr@ec099.llnl.gov>

Received: from ec099.llnl.gov by gatec.wpafb.af.mil (4.1/SMI-4.1)  
id AA24152; Thu, 6 Jan 94 22:25:38 EST  
Received: by ec099.llnl.gov (4.1/LLNL-1.18)  
id AA12090; Thu, 6 Jan 94 18:40:32 PST  
Date: Thu, 6 Jan 94 18:40:32 PST  
Message-Id: <9401070240.AA12090@ec099.llnl.gov>  
X-Epm-Stub: Thu, 6 Jan 94 18:40:32 PST  
To: F33601@ec099.llnl.gov  
Subject: 843:F3360194T7111001  
>From: EDIEXPRESS2-3 </O=EDIEXPRESS2-3/@sm2ge.llnl.gov>  
X-Hub\_Router: <@ec099.llnl.gov:cole@ec099.llnl.gov>

ISA\*00\* \*01\*000000606 \*ZZ\*PUBLIC \*ZZ\*GATEC  
\*940105\*1624\*U\*00301\*000612510\*0\*P\*^  
GS\*RR\*KY64957\*GATEC\*940105\*1617\*0077092\*X\*003010  
ST\*843\*0077092  
BQR\*00\*F3360194T7111001\*940103  
REF\*PR\*F3360194T7111001  
REF\*DX\*GATEC  
ITD\*08\*\*0\*\*10  
ITD\*08\*\*0\*\*20  
ITD\*08\*\*0\*\*30  
ITD\*08\*\*0\*\*90  
PWK\*FD\*EL\*\*DS  
N1\*VN\*KRASITY'S MEDICAL & SURGICAL SUPPLY\*91\*KY64957  
N3\*1825 BAILEY AVE  
N4\*DEARBORN\*MI\*48124  
N1\*ZZ\*\*33\*2T036  
PER\*SU\*NINA KRASITY\*TE\*(313)274-2210  
PO1\*1\*6\*EA\*6.43  
REF\*CR\*v797p-3806j  
DTM\*036\*961293  
CTT\*1  
AMT\*TT\*38.58  
SE\*20\*0077092  
GE\*1\*0077092  
IEA\*1\*000612510

Bad 997:  
ISA\*00\* \*00\* \*ZZ\*GATEC \*ZZ\*PUBLIC  
\*940106\*2333\*U\*00301\*200675389\*0\*P\*^  
GS\*FA\*GATEC\*KY64957\*940106\*2333\*200675390\*X\*003010  
ST\*997\*200675391  
AK1\*RR\*0077092  
AK2\*843\*0077092  
AK3\*DTM\*17  
AK4\*2\*373\*8\*961293  
AK5\*R\*5  
AK9\*R\*1\*1\*0  
SE\*8\*200675391  
GE\*1\*200675390

IEA\*1\*200675389

Whether there is a syntax error or not, the 997 translation will construct the 997 acknowledgment (indicating no error or error as shown in the example above) and then place it in a SMTP envelope. *Inbound* then shells the 997 checker output to mail the 997.

All GATEC outbound transactions are also run through the 997 checker. If an error is found, the 997 message is sent to the gatecmgr with a subject of "diag: Failed syntax check." This implies an error with GATEC application software and thus a GATEC application engineer should be consulted immediately to evaluate the problem.

---

## 5.10 *ack\_cron\_pl* Diagnostic Messages

---

Every day *ack\_cron\_pl* will send a message to the gatecmgr indicating the UTNs of transactions which have not been acknowledged, and the UTNs of transactions which have been rejected by the VANs. An example message is shown below. This message should be reviewed every day. Appropriate action should be initiated to remedy all discrepancies.

Date: Tue, 21 Dec 93 06:10:33 EST  
From: gatecmgr@gatecb.wpafb.af.mil (GATEC manager)  
Subject: Rejected/Overdue report  
To: cole@tis.llnl.gov, gatecmgr@gatecb.wpafb.af.mil  
Message-ID: <9312211110.AA03487@gatecb.wpafb.af.mil>  
Status: RO

X12 transactions overdue as of today: 86

The 836 with UTN F3360193TK811002  
and Group Control Number 137959  
that was issued on 15-DEC-93  
has not been acknowledged.  
Acknowledgments must be received within 120 hours.

The 850 with UTN F3360193TK811002  
and Group Control Number 137962  
that was issued on 15-DEC-93  
has not been acknowledged.  
Acknowledgments must be received within 120 hours.

The 836 with UTN F3360193TK811002

and Group Control Number 137965  
that was issued on 15-DEC-93  
has not been acknowledged.  
Acknowledgments must be received within 120 hours.

The 850 with UTN F3360193TK811002  
and Group Control Number 137968  
that was issued on 15-DEC-93  
has not been acknowledged.  
Acknowledgments must be received within 120 hours.

The 836 with UTN F3360193TK811002  
and Group Control Number 137971  
that was issued on 15-DEC-93  
has not been acknowledged.  
Acknowledgments must be received within 120 hours.

The 850 with UTN F3360193TK811002  
and Group Control Number 137974  
that was issued on 15-DEC-93  
has not been acknowledged.  
Acknowledgments must be received within 120 hours.

The 836 with UTN F3360194T3650001  
and Group Control Number 137977  
that was issued on 15-DEC-93  
has not been acknowledged.  
Acknowledgments must be received within 120 hours.

The 850 with UTN F3360194T3650001  
and Group Control Number 137980  
that was issued on 15-DEC-93  
has not been acknowledged.  
Acknowledgments must be received within 120 hours.

The 836 with UTN F3360194T4225001  
and Group Control Number 137983  
that was issued on 15-DEC-93  
has not been acknowledged.  
Acknowledgments must be received within 120 hours.

The 850 with UTN F3360194T4225001  
and Group Control Number 137986  
that was issued on 15-DEC-93  
has not been acknowledged.  
Acknowledgments must be received within 120 hours.

The 836 with UTN F3360194T1684001  
and Group Control Number 137989  
that was issued on 15-DEC-93  
has not been acknowledged.

Acknowledgments must be received within 120 hours.

The 850 with UTN F3360194T1684001  
and Group Control Number 137992  
that was issued on 15-DEC-93  
has not been acknowledged.  
Acknowledgments must be received within 120 hours.

The 836 with UTN F3360194T1684001  
and Group Control Number 137995  
that was issued on 15-DEC-93  
has not been acknowledged.  
Acknowledgments must be received within 120 hours.

The 850 with UTN F3360194T1684001  
and Group Control Number 137998  
that was issued on 15-DEC-93  
has not been acknowledged.  
Acknowledgments must be received within 120 hours.

The 836 with UTN F3360194T1684001  
and Group Control Number 138001  
that was issued on 15-DEC-93  
has not been acknowledged.  
Acknowledgments must be received within 120 hours.

The 850 with UTN F3360194T1684001  
and Group Control Number 138004  
that was issued on 15-DEC-93  
has not been acknowledged.  
Acknowledgments must be received within 120 hours.

---

---

## SECTION 6 Other Files

---

This section discusses the rest of the files that GATEC generates.

---

### 6.1 Client and Server Log Files

---

Both the client and the application (server) write out log files which document session interaction. The client log file is written into the /tmp directory and has a name in the form of:

dui.log.gatecb.dui.<four\_digit\_number>

The server log file is located in the PC directory that contains the windui application. Its name is

dui.log

If the application crashes it is important that it not be re-started until the log files on both the SPARC and the PC are copied to a different name. The log files should then be referred to a GATEC application engineer for further analysis. The log files should then be referred to a GATEC application engineer for further analysis.

Note that similar log files are written out for the lead buyer and system parameter applications, i.e.,

dui.log.lead\_buyer.dui.<four\_digit\_number>

dui.log.sys\_param.dui.<four\_digit\_number>

The log files on the PC are called dui.log for both applications.

---

### 6.2 Understanding CDF's

---

Common Data Format files are ASCII flat files which contain data that are used for generation of X12 transactions or upload of information to BCAS. The GATEC system generates CDFs. They are described below:

---

840<four\_alpha\_chars><5\_digits> e.g. 840PCAa03582 used to generate 840

850<four\_alpha\_chars><5\_digits> e.g. 850HAAa20250 used to generate 850

836<four\_alpha\_chars><5\_digits> e.g. 836WAAa18576 used to generate 836

864<four\_alpha\_chars><5\_digits> e.g. 864PLLt19875 used to generate 864

BCAS<four\_alpha\_chars><5\_digits> e.g. BCASLAAa06366 used to convey award upload information to BCAS.

These files are originally placed in /home/gatec2/tmp on the Database Machine. Two other CDF's are produced that reside in /var/tmp on the Database Machine

<four\_alpha\_chars><five\_digits> e.g. baaa15637 used to convey item upload information to BCAS

<four\_alpha\_chars><five\_digits> e.g. paaa02286 used to convey cancel award information to BCAS

---

### 6.2.1 Content of 840 CDF

---

The 840 CDF contains the contents of the following data from the indicated tables:

Acquisition.AssignedBuyer  
Acquisition.Priority  
Acquisition.PurchaseReqNumber  
Acquisition.RFQNumber  
Acquisition.ReviewStatus  
Acquisition.SiteID  
Acquisition.SolicitationNumber  
Acquisition.UTNNumber

Document.DocumentID  
Document.DocumentStatus  
Document.DocumentType  
Document.EffectiveDate  
Document.UTNNumber

DocumentSent.CheckAcknowledgement



DocumentSent.DocumentID  
DocumentSent.GroupControlNumber  
DocumentSent.InterchangeControlNumber  
DocumentSent.IssueDate  
DocumentSent.TransactionSetControlNumber

GSDefaults.ApplicationReceiver  
GSDefaults.ApplicationSender  
GSDefaults.DocumentType  
GSDefaults.FunctionalID  
GSDefaults.GroupControlNumber  
GSDefaults.GroupDate  
GSDefaults.GroupTime  
GSDefaults.InterchangeVersion  
GSDefaults.ResponsibleAgency

ISADefaults.AckRequested  
ISADefaults.Authorization  
ISADefaults.AuthorizationID  
ISADefaults.ControlNumber  
ISADefaults.DocumentType  
ISADefaults.ElementSeparator  
ISADefaults.InterchangeCtlStds  
ISADefaults.InterchangeDate  
ISADefaults.InterchangeTime  
ISADefaults.InterchangeVersion  
ISADefaults.ReceiverID  
ISADefaults.ReceiverIDQualifier  
ISADefaults.Security  
ISADefaults.SecurityID  
ISADefaults.SenderID  
ISADefaults.SenderIDQualifier  
ISADefaults.SubElementSeparator  
ISADefaults.TestIndicator

Item.ManufacturerName  
Item.ManufacturerPart  
Item.StockNumber

Part.PartIdentifier  
Part.PartNumber

ReqForQuote.Amended  
ReqForQuote.DeliveredByDate  
ReqForQuote.DocumentID  
ReqForQuote.PurchaseReqNumber  
ReqForQuote.QuoteReceivedByDate  
ReqForQuote.SolicitationNumber

ReqForQuoteLineItem.DocumentID  
ReqForQuoteLineItem.FSCSuffix

ReqForQuoteLineItem.FedStockClass  
 ReqForQuoteLineItem.ItemDescription01  
 ReqForQuoteLineItem.ItemDescription02  
 ReqForQuoteLineItem.ItemDescription03  
 ReqForQuoteLineItem.ItemDescription04  
 ReqForQuoteLineItem.ItemDescription05  
 ReqForQuoteLineItem.ItemDescription06  
 ReqForQuoteLineItem.ItemNumber  
 ReqForQuoteLineItem.PartListIncluded  
 ReqForQuoteLineItem.PurchaseReqNumber  
 ReqForQuoteLineItem.Quantity  
 ReqForQuoteLineItem.ShipToZIP  
 ReqForQuoteLineItem.UnitOfMeasure  
 ReqForQuoteLineItem.UnitPrice

Vendor.ApplicationReceiverID  
 Vendor.CageCode  
 Vendor.DateAssigned  
 Vendor.ElectronicMailAddress  
 Vendor.GovtPassword  
 Vendor.InterchangeReceiverID  
 Vendor.InterchangeReceiverQualifier  
 Vendor.VendorID

Other tables that may be used in special circumstances include: clause, measurementData, and shippingDocPackage. The translator then places this information into an 840 X12 format.

An example of an 840 CDF is shown below,

```

%Xbegin
%Xpurpose   rfq
%Xfilename   840CDF
%Xdestination_host  translator
%Xversion    2
%Xdate       93 12 22
***** start of data elements *****
***** Acquisition table *****
%Acquisition.AssignedBuyer      G1T
%Acquisition.Priority           13
%Acquisition.PurchaseReqNumber  FC230033559059
%Acquisition.RFQNumber          94T6806
%Acquisition.ReviewStatus       UI
%Acquisition.SiteID              F33601
%Acquisition.SolicitationNumber  94T6806
%Acquisition.UTNNumber           F3360194T6806002
***** Clause table *****
***** Document table *****
%Document.DocumentID            330994
%Document.DocumentStatus         00
%Document.DocumentType           840
  
```

```

%Document.EffectiveDate  93 12 22
%Document.UTNNumber      F3360194T6806002
#***** DocumentSent table *****
%DocumentSent.CheckAcknowledgement  Y
%DocumentSent.DocumentID      330994
%DocumentSent.GroupControlNumber  000143119
%DocumentSent.InterchangeControlNumber  000143121
%DocumentSent.IssueDate  9312220805
%DocumentSent.TransactionSetControlNumber  000143120
#***** GSDefaults table *****
%GSDefaults.ApplicationReceiver  RECEIVER
%GSDefaults.ApplicationSender    GATEC
%GSDefaults.DocumentType        840
%GSDefaults.FunctionalID  RQ
%GSDefaults.GroupControlNumber  999999999
%GSDefaults.GroupDate  93 07 06
%GSDefaults.GroupTime  93 07 06
%GSDefaults.InterchangeVersion  003010
%GSDefaults.ResponsibleAgency  X
#***** ISADefaults table *****
%ISADefaults.AckRequested      0
%ISADefaults.Authorization
%ISADefaults.AuthorizationID  00
%ISADefaults.ControlNumber    999999999
%ISADefaults.DocumentType     840
%ISADefaults.ElementSeparator *
%ISADefaults.InterchangeCtlStds  U
%ISADefaults.InterchangeDate  93 07 06
%ISADefaults.InterchangeTime  93 07 06
%ISADefaults.InterchangeVersion  00301
%ISADefaults.ReceiverID  RECEIVER
%ISADefaults.ReceiverIDQualifier  ZZ
%ISADefaults.Security
%ISADefaults.SecurityID  00
%ISADefaults.SenderID  GATEC
%ISADefaults.SenderIDQualifier  ZZ
%ISADefaults.SubElementSeparator  ^
%ISADefaults.TestIndicator  P
#***** Item table *****
%Item.ManufacturerName  CURRIES DOOR CO
%Item.ManufacturerPart  707 SERIES
%Item.StockNumber  5670LAB229R
#***** MeasurementData table *****
#***** Part table *****
%Part.PartIdentifier  SW
%Part.PartNumber  5670LAB229R
#***** ReqForQuote table *****
%ReqForQuote.Amended  N
%ReqForQuote.DeliveredByDate  94 01 31
%ReqForQuote.DocumentID  330994
%ReqForQuote.PurchaseReqNumber  FC230033559059

```

```

%ReqForQuote.QuoteReceivedByDate      93 12 27
%ReqForQuote.SolicitationNumber 94T6806
#***** ReqForQuoteLineItem table *****
%ReqForQuoteLineItem.DocumentID      330994
%ReqForQuoteLineItem.FSCSuffix 02
%ReqForQuoteLineItem.FedStockClass    5670
%ReqForQuoteLineItem.ItemDescription01 DOOR, PRE-HUNG; FULLFLUSH;
METAL;
%ReqForQuoteLineItem.ItemDescription02 SINGLE; SIZE 3'4"X7'0";
%ReqForQuoteLineItem.ItemDescription03 1-3/4".18GA.RH-REVERSE 707
%ReqForQuoteLineItem.ItemDescription04 SERIES WITH EXISTING OPENING
ANCHER
%ReqForQuoteLineItem.ItemDescription05 16GA.CALVANIZED STEEL
6"THROUTW/BB
%ReqForQuoteLineItem.ItemDescription06 HINGES; 4-1/2"X4-1/2"/1-1/2PARS.
%ReqForQuoteLineItem.ItemDescription07 W/GOVT.161CYLINDRICAL LOCK.
%ReqForQuoteLineItem.ItemDescription08 MFR: CURRIES DOOR CO.
%ReqForQuoteLineItem.ItemDescription09 P/N: 707 SERIES
%ReqForQuoteLineItem.ItemNumber      0002
%ReqForQuoteLineItem.PartListIncluded Y
%ReqForQuoteLineItem.PurchaseReqNumber FC230033559059
%ReqForQuoteLineItem.Quantity      1
%ReqForQuoteLineItem.ShipToZIP      454335000
%ReqForQuoteLineItem.UnitOfMeasure   EA
%ReqForQuoteLineItem.UnitPrice 460.9
#***** ShippingDocPackage table *****
#***** Vendor table *****
% Vendor.ApplicationReceiverID PUBLIC
% Vendor.CageCode PUBLIC
% Vendor.DateAssigned      93 07 06
% Vendor.ElectronicMailAddress <@ec099.llnl.gov:live_public@ec099.llnl.gov>
% Vendor.GovtPassword
% Vendor.InterchangeReceiverID PUBLIC
% Vendor.InterchangeReceiverQualifier ZZ
% Vendor.VendorID 1410
%Xend

```

---

## 6.2.2 Content of 850 CDF

---

The 850 CDF contains the contents of the following data from the indicated tables:

```

Acquisition.AssignedBuyer
Acquisition.PurchaseReqNumber
Acquisition.RFQNumber
Acquisition.SiteID
Acquisition.SolicitationNumber
Acquisition.UTNNumber

```

Award.Acknowledgement  
Award.BusEntityCageCode  
Award.BusEntityName  
Award.DPASPriority  
Award.DocumentID  
Award.EffectiveDate  
Award.PurchaseOrderNumber  
Award.PurchaseReqNumber  
Award.RFQReferenceNumber  
Award.RequiredDeliveryDate

AwardLineItem.BillToAddress  
AwardLineItem.BillToCity  
AwardLineItem.BillToName  
AwardLineItem.BillToZIP  
AwardLineItem.BuyerAddress  
AwardLineItem.BuyerCity  
AwardLineItem.BuyerName  
AwardLineItem.BuyerZIP  
AwardLineItem.DPASPriority  
AwardLineItem.DeliveryDate  
AwardLineItem.DocumentID  
AwardLineItem.FedStockClass  
AwardLineItem.ItemNumber  
AwardLineItem.PartListIncluded  
AwardLineItem.PurchaseVariation  
AwardLineItem.Quantity  
AwardLineItem.ShipToAddress  
AwardLineItem.ShipToCity  
AwardLineItem.ShipToName  
AwardLineItem.ShipToZIP  
AwardLineItem.TotalLineAmount  
AwardLineItem.UnitOfMeasure  
AwardLineItem.UnitPrice

BCSAAward.CompetitionCode  
BCSAAward.NegotiationAuthority  
BCSAAward.OrderStatements  
BCSAAward.PIIN  
BCSAAward.UTNNumber  
BCSAAward.VendorCode

Document.DocumentID  
Document.DocumentStatus  
Document.DocumentType  
Document.ReviewStatus  
Document.UTNNumber

DocumentSent.CheckAcknowledgement  
DocumentSent.DocumentID

DocumentSent.GroupControlNumber  
DocumentSent.InterchangeControlNumber  
DocumentSent.IssueDate  
DocumentSent.TransactionSetControlNumber

FreeOnBoard.FOBType  
FreeOnBoard.PaperworkID

GSDefaults.ApplicationReceiver  
GSDefaults.ApplicationSender  
GSDefaults.DocumentType  
GSDefaults.FunctionalID  
GSDefaults.GroupControlNumber  
GSDefaults.GroupDate  
GSDefaults.GroupTime  
GSDefaults.InterchangeVersion  
GSDefaults.ResponsibleAgency

ISADefaults.AckRequested  
ISADefaults.Authorization  
ISADefaults.AuthorizationID  
ISADefaults.ControlNumber  
ISADefaults.DocumentType  
ISADefaults.ElementSeparator  
ISADefaults.InterchangeCtlStds  
ISADefaults.InterchangeDate  
ISADefaults.InterchangeTime  
ISADefaults.InterchangeVersion  
ISADefaults.ReceiverID  
ISADefaults.ReceiverIDQualifier  
ISADefaults.Security  
ISADefaults.SecurityID  
ISADefaults.SenderID  
ISADefaults.SenderIDQualifier  
ISADefaults.SubElementSeparator  
ISADefaults.TestIndicator

Part.DocumentID  
Part.ItemNumber  
Part.PartIdentifier  
Part.PartNumber

Quote.CageCode  
Quote.DocumentID  
Quote.IsSmallBusiness  
Quote.RFQEffectiveDate  
Quote.SellerName

QuoteTerms.DiscountDueDays  
QuoteTerms.DiscountPercent  
QuoteTerms.DocumentID

ReqForQuoteLineItem.DocumentID  
ReqForQuoteLineItem.FSCSuffix  
ReqForQuoteLineItem.FedStockClass  
ReqForQuoteLineItem.ItemDescription01  
ReqForQuoteLineItem.ItemDescription02  
ReqForQuoteLineItem.ItemDescription03  
ReqForQuoteLineItem.ItemDescription04  
ReqForQuoteLineItem.ItemDescription05  
ReqForQuoteLineItem.ItemDescription06  
ReqForQuoteLineItem.ItemDescription07  
ReqForQuoteLineItem.ItemNumber  
ReqForQuoteLineItem.PartListIncluded  
ReqForQuoteLineItem.PurchaseReqNumber  
ReqForQuoteLineItem.Quantity  
ReqForQuoteLineItem.ShipToZIP  
ReqForQuoteLineItem.UnitOfMeasure  
ReqForQuoteLineItem.UnitPrice

Vadrs.AwdDate  
Vadrs.ConAdr1  
Vadrs.ConAdr2  
Vadrs.ConName  
Vadrs.DunsNbr  
Vadrs.FaxNbr  
Vadrs.MinOrder  
Vadrs.Phone  
Vadrs.SolDate  
Vadrs.TaxId  
Vadrs.Vendor  
Vadrs.Zip

Vendor.ApplicationReceiverID  
Vendor.CageCode  
Vendor.DateAssigned  
Vendor.ElectronicMailAddress  
Vendor.GovtPassword  
Vendor.InterchangeReceiverID  
Vendor.InterchangeReceiverQualifier  
Vendor.Temporary

Other tables that may be used in special circumstances include:  
contact, measurementData, and relatedPaperwork.

An example of an 850 CDF is shown below,

```
%Xbegin
%Xpurpose   Award
%Xfilename  850CDF
%Xdestination_host  translator
```

```

%Xversion      2
%Xdate         93 12 01
#***** start of data elements *****
#***** Acquisition table *****
%Acquisition.AssignedBuyer      G1H
%Acquisition.PurchaseReqNumber  FB230032735417
%Acquisition.RFQNumber          94T3213
%Acquisition.SiteID             F33601
%Acquisition.SolicitationNumber 94T3213
%Acquisition.UTNNumber          F3360194T3213005
#***** Award table *****
%Award.Acknowledgement          NA
%Award.BusEntityCageCode         0N431
%Award.BusEntityName             Frank Parson's Paper Co. Inc.
%Award.DPASPriority               c9e
%Award.DocumentID                273192
%Award.EffectiveDate             93 12 01
%Award.PurchaseOrderNumber       94M9233
%Award.PurchaseReqNumber         FB230032735417
%Award.RFQReferenceNumber        F3360194T3213005
%Award.RequiredDeliveryDate      94 01 03
#***** AwardLineItem table *****
%AwardLineItem.BillToAddress     DAO-DE WP/FSM 1940 ALLBROOK DR
%AwardLineItem.BillToCity        STE 2 WRIGHT-PATTERSON OH
%AwardLineItem.BillToName        ACCOUNTING & FINANCE OFFICE
%AwardLineItem.BillToZIP         454335308
%AwardLineItem.BuyerAddress      1940 ALLBROOK DR STE 3
%AwardLineItem.BuyerCity         WRIGHT PATTERSON AFB OH
%AwardLineItem.BuyerName         ASC/PKWOSA
%AwardLineItem.BuyerZIP          454335309
%AwardLineItem.DPASPriority       c9e
%AwardLineItem.DeliveryDate       94 01 03
%AwardLineItem.DocumentID         273192
%AwardLineItem.FedStockClass      7045
%AwardLineItem.ItemNumber         0001
%AwardLineItem.PartListIncluded   Y
%AwardLineItem.PurchaseVariation
%AwardLineItem.Quantity           112
%AwardLineItem.ShipToAddress      5236 CHASE STREET
%AwardLineItem.ShipToCity         WRIGHT-PATTERSON AFB OH
%AwardLineItem.ShipToName         BASE SUPPLY OFFICER  BLDG 257
%AwardLineItem.ShipToZIP          454335501
%AwardLineItem.TotalLineAmount    504
%AwardLineItem.UnitOfMeasure      KT
%AwardLineItem.UnitPrice          4.5
#***** BCASAward table *****
%BCASAward.CompetitionCode        Y
%BCASAward.NegotiationAuthority    0301
%BCASAward.OrderStatements         EX IN SI GU
%BCASAward.PIIN                    94M9233
%BCASAward.UTNNumber              F3360194T3213005

```



```

%BCASAward.VendorCode 0N4319S
#***** Contact table *****
#***** Document table *****
%Document.DocumentID 273192
%Document.DocumentStatus 00
%Document.DocumentType 850
%Document.ReviewStatus UI
%Document.UTNNumber F3360194T3213005
#***** DocumentSent table *****
%DocumentSent.CheckAcknowledgement Y
%DocumentSent.DocumentID 273192
%DocumentSent.GroupControlNumber 000117439
%DocumentSent.InterchangeControlNumber 000117441
%DocumentSent.IssueDate 9312010906
%DocumentSent.TransactionSetControlNumber 000117440
#***** FreeOnBoard table *****
%FreeOnBoard.FOBType D
%FreeOnBoard.PaperworkID 238004
#***** GSDefaults table *****
%GSDefaults.ApplicationReceiver RECEIVER
%GSDefaults.ApplicationSender GATEC
%GSDefaults.DocumentType 850
%GSDefaults.FunctionalID PO
%GSDefaults.GroupControlNumber 999999999
%GSDefaults.GroupDate 93 07 06
%GSDefaults.GroupTime 93 07 06
%GSDefaults.InterchangeVersion 003010
%GSDefaults.ResponsibleAgency X
#***** ISADefaults table *****
%ISADefaults.AckRequested 0
%ISADefaults.Authorization
%ISADefaults.AuthorizationID 00
%ISADefaults.ControlNumber 999999999
%ISADefaults.DocumentType 850
%ISADefaults.ElementSeparator *
%ISADefaults.InterchangeCtlStds U
%ISADefaults.InterchangeDate 93 07 06
%ISADefaults.InterchangeTime 93 07 06
%ISADefaults.InterchangeVersion 00301
%ISADefaults.ReceiverID RECEIVER
%ISADefaults.ReceiverIDQualifier ZZ
%ISADefaults.Security
%ISADefaults.SecurityID 00
%ISADefaults.SenderID GATEC
%ISADefaults.SenderIDQualifier ZZ
%ISADefaults.SubElementSeparator ^
%ISADefaults.TestIndicator P
#***** MeasurementData table *****
#***** Part table *****
%Part.DocumentID 190666
%Part.ItemNumber 0005

```

```

%Part.PartIdentifier  SW
%Part.PartNumber    7045P40263
#***** Quote table *****
%Quote.CageCode     0N431
%Quote.DocumentID   214160
%Quote.IsSmallBusiness  Y
%Quote.RFQEffectiveDate  93 11 09
%Quote.SellerName   Frank Parson's Paper Co. Inc.
#***** QuoteTerms table *****
#***** RelatedPaperwork table *****
#***** ReqForQuoteLineItem table *****
%ReqForQuoteLineItem.DocumentID      190666
%ReqForQuoteLineItem.FSCSuffix  03
%ReqForQuoteLineItem.FedStockClass  7045
%ReqForQuoteLineItem.ItemDescription01  CLEANING KIT, FOR 3.5" DISK DRIVE.
%ReqForQuoteLineItem.ItemDescription02  CONTAINS 1 EA 3.5" HEAD CLEANING
%ReqForQuoteLineItem.ItemDescription03  DISKETTE, 1 1/2OZ BOTTLE
CLEANING
%ReqForQuoteLineItem.ItemDescription04  SOLUTION, INSTRUCTION BOOK, AND
STORAGE
%ReqForQuoteLineItem.ItemDescription05  CADDY.
%ReqForQuoteLineItem.ItemDescription06  MFR: 3M
%ReqForQuoteLineItem.ItemDescription07  P/N: 40263
%ReqForQuoteLineItem.ItemDescription08  HAZARDOUS-MSDS REQUIRED
%ReqForQuoteLineItem.ItemNumber      0005
%ReqForQuoteLineItem.PartListIncluded  Y
%ReqForQuoteLineItem.PurchaseReqNumber  FB230032735417
%ReqForQuoteLineItem.Quantity      112
%ReqForQuoteLineItem.ShipToZIP      454335501
%ReqForQuoteLineItem.UnitOfMeasure  KT
%ReqForQuoteLineItem.UnitPrice      4.8
#***** Vadr table *****
#***** Vendor table *****
%Vendor.ApplicationReceiverID  FK60138
%Vendor.CageCode  0N431
%Vendor.DateAssigned  93 10 26
%Vendor.ElectronicMailAddress  <@ec099.llnl.gov:/O=EDIEXPRESS2-3/@sm2ge.llnl.gov>
%Vendor.GovtPassword  000001111
%Vendor.InterchangeReceiverID  PUBLIC
%Vendor.InterchangeReceiverQualifier  ZZ
%Vendor.Temporary  Y
%Xend

```

---

### 6.2.3 Content of 836 CDF

---

The 836 CDF is identical to the 850 CDF except Vadr, and Vendor tables have no applicability since the transaction will be sent to public.

An example of an 836 CDF is shown below,

```
%Xbegin
%Xpurpose   Award_Summary
%Xfilename  836CDF
%Xdestination_host  translator
%Xversion   2
%Xdate      93 12 01
#***** start of data elements *****
#***** Acquisition table *****
%Acquisition.AssignedBuyer      G1D
%Acquisition.PurchaseReqNumber  FB230032734292
%Acquisition.RFQNumber  94T3257
%Acquisition.SiteID  F33601
%Acquisition.SolicitationNumber  94T3257
%Acquisition.UTNNumber  F3360194T3257007
#***** Award table *****
%Award.Acknowledgement  NA
%Award.BusEntityCageCode      TMPT0486
%Award.BusEntityName  OFFICE FURNITURE CONCEPTS
%Award.DPASPriority  c9e
%Award.DocumentID  273555
%Award.EffectiveDate  93 12 01
%Award.PurchaseOrderNumber  94M9268
%Award.PurchaseReqNumber  FB230032734292
%Award.RFQReferenceNumber  F3360194T3257007
%Award.RequiredDeliveryDate  93 12 21
#***** AwardLineItem table *****
%AwardLineItem.BillToAddress  DAO-DE WP/FSM 1940 ALLBROOK DR
%AwardLineItem.BillToCity  STE 2 WRIGHT-PATTERSON OH
%AwardLineItem.BillToName  ACCOUNTING & FINANCE OFFICE
%AwardLineItem.BillToZIP  454335308
%AwardLineItem.BuyerAddress  1940 ALLBROOK DR STE 3
%AwardLineItem.BuyerCity  WRIGHT PATTERSON AFB OH
%AwardLineItem.BuyerName  ASC/PKWOSA
%AwardLineItem.BuyerZIP  454335309
%AwardLineItem.DPASPriority  c9e
%AwardLineItem.DeliveryDate  93 12 21
%AwardLineItem.DocumentID  273555
%AwardLineItem.FedStockClass  7110
%AwardLineItem.ItemNumber  0001
%AwardLineItem.PartListIncluded  Y
%AwardLineItem.PurchaseVariation
%AwardLineItem.Quantity  6
%AwardLineItem.ShipToAddress  5236 CHASE STREET
%AwardLineItem.ShipToCity  WRIGHT-PATTERSON AFB OH
%AwardLineItem.ShipToName  BASE SUPPLY OFFICER  BLDG 257
%AwardLineItem.ShipToZIP  454335501
%AwardLineItem.TotalLineAmount  22.14
%AwardLineItem.UnitOfMeasure  EA
```

```

%AwardLineItem.UnitPrice 3.69
#***** BCASAward table *****
%BCASAward.CompetitionCode Y
%BCASAward.NegotiationAuthority 0301
%BCASAward.OrderStatements EX IN SI GU
%BCASAward.PIIN 94M9268
%BCASAward.UTNNumber F3360194T3257007
%BCASAward.VendorCode 2J7209S
#***** Contact table *****
#***** Document table *****
%Document.DocumentID 273556
%Document.DocumentStatus 00
%Document.DocumentType 836
%Document.ReviewStatus UI
%Document.UTNNumber F3360194T3257007
#***** DocumentSent table *****
%DocumentSent.CheckAcknowledgement Y
%DocumentSent.DocumentID 273556
%DocumentSent.GroupControlNumber 000117886
%DocumentSent.InterchangeControlNumber 000117888
%DocumentSent.IssueDate 9312011240
%DocumentSent.TransactionSetControlNumber 000117887
#***** FreeOnBoard table *****
%FreeOnBoard.FOBType D
%FreeOnBoard.PaperworkID 238064
#***** GSDefaults table *****
%GSDefaults.ApplicationReceiver RECEIVER
%GSDefaults.ApplicationSender GATEC
%GSDefaults.DocumentType 836
%GSDefaults.FunctionalID RQ
%GSDefaults.GroupControlNumber 999999999
%GSDefaults.GroupDate 93 07 06
%GSDefaults.GroupTime 93 07 06
%GSDefaults.InterchangeVersion 003010
%GSDefaults.ResponsibleAgency X
#***** ISADefaults table *****
%ISADefaults.AckRequested 0
%ISADefaults.Authorization
%ISADefaults.AuthorizationID 00
%ISADefaults.ControlNumber 999999999
%ISADefaults.DocumentType 836
%ISADefaults.ElementSeparator *
%ISADefaults.InterchangeCtlStds U
%ISADefaults.InterchangeDate 93 07 06
%ISADefaults.InterchangeTime 93 07 06
%ISADefaults.InterchangeVersion 00301
%ISADefaults.ReceiverID RECEIVER
%ISADefaults.ReceiverIDQualifier ZZ
%ISADefaults.Security
%ISADefaults.SecurityID 00
%ISADefaults.SenderID GATEC

```

```

%ISADefaults.SenderIDQualifier    ZZ
%ISADefaults.SubElementSeparator    ^
%ISADefaults.TestIndicator    P
#***** MeasurementData table *****
#***** Part table *****
%Part.DocumentID    192939
%Part.ItemNumber    0007
%Part.PartIdentifier    SW
%Part.PartNumber    7110PFH-CMV48
#***** Quote table *****
%Quote.CageCode    TMPT0486
%Quote.DocumentID    245627
%Quote.IsSmallBusiness    Y
%Quote.RFQEffectiveDate    93 11 16
%Quote.SellerName    OFFICE FURNITURE CONCEPTS
#***** QuoteTerms table *****
#***** RelatedPaperwork table *****
#***** ReqForQuoteLineItem table *****
%ReqForQuoteLineItem.DocumentID    192939
%ReqForQuoteLineItem.FSCSuffix    26
%ReqForQuoteLineItem.FedStockClass    7110
%ReqForQuoteLineItem.ItemDescription01    CORD MANAGER, VERTICAL 48".
%ReqForQuoteLineItem.ItemDescription02    MFR: CONTRACT SOURCE INC
%ReqForQuoteLineItem.ItemDescription03    P/N: FH-CMV48
%ReqForQuoteLineItem.ItemNumber    0007
%ReqForQuoteLineItem.PartListIncluded    Y
%ReqForQuoteLineItem.PurchaseReqNumber    FB230032734292
%ReqForQuoteLineItem.Quantity    6
%ReqForQuoteLineItem.ShipToZIP    454335501
%ReqForQuoteLineItem.UnitOfMeasure    EA
%ReqForQuoteLineItem.UnitPrice    3.69
#***** Vads table *****
%Vads.AwdDate    93292
%Vads.ConAdr1    4433 H BROOKFIELD CORPORATE DRIVE
%Vads.ConAdr2    CHANTILLY VA
%Vads.ConName    OFFICE FURNITURE CONCEPTS
%Vads.Contact    ANN AKINSON
%Vads.DunsNbr    :2J720
%Vads.MinOrder    0000
%Vads.Phone    7038188772
%Vads.SolDate    93124
%Vads.Vendor    2J7209S
%Vads.Zip    220211691
#***** Vendor table *****
%Vendor.ApplicationReceiverID    KY63697
%Vendor.CageCode    TMPT0486
%Vendor.DateAssigned    93 11 05
%Vendor.ElectronicMailAddress    <@ec099.llnl.gov:/O=EDIEXPRESS2-3/@sm2ge.llnl.gov>
%Vendor.GovtPassword    000001205
%Vendor.InterchangeReceiverID    PUBLIC
%Vendor.InterchangeReceiverQualifier    ZZ

```

% Vendor.Temporary Y  
%Xend

---

#### 6.2.4 Content of BCAS CDF

---

The BCAS CDF used for upload of award information to BCAS contains the following parameters:

Xbegin  
Xpurpose  
Xfilename  
Xdestination\_host  
version 2  
Xdate 93 12 01  
award\_date  
award\_piin  
buyer\_code  
another\_fed\_agency  
competition\_code  
confirm\_with  
contract\_number  
contractor\_signs  
discount\_days  
discount\_days\_net  
discount\_percent  
do\_rating  
fob\_code  
line\_item  
negotiation\_authority  
number\_of\_line\_items  
order\_statements  
purchase\_variation  
quantity  
required\_delivery\_date  
review\_accounting\_class  
solicitation\_number  
special\_contract\_order\_preparation  
supplemental\_description  
unit\_price  
variation\_percent  
vendor\_bcas\_code  
warranty\_clause\_days  
UTNNumber  
%Xend

An example of a BCAS CDF is shown below,

%Xbegin

```

%Xpurpose    BCAS award
%Xfilename    BCASCDF
%Xdestination_host    BCAS
%Xversion    2
%Xdate 93 12 01
#***** start of data elements *****
%award_date    93DEC01
%award_piin    94F8152
%buyer_code    G1F
%another_fed_agency    N
%competition_code    Y
%confirm_with
%contract_number    GS02F1042A
%contractor_signs    N
%discount_days    10
%discount_days_net    30
%discount_percent    1.000
%do_rating    c9e
%fob_code    D
%line_item    0001
%negotiation_authority    INTG
%number_of_line_items    1
%order_statements    IN SI
%purchase_variation
%quantity    00091
%required_delivery_date    93DEC27
%review_accounting_class    N
%solicitation_number    94T4381
%special_contract_order_preparation    N
%supplemental_description    N
%unit_price    7.4000
%variation_percent
%vendor_bcas_code    472279S
%warranty_clause_days
%UTNNumber    F3360194T4381001
%Xend

```

---

### 6.2.5 Content of Item Upload CDF

---

The CDF used to upload item description changes to BCAS contains the following parameters:

```

Xbegin
Xpurpose
Xfilename
Xdestination_host
Xversion
Xdate

```

stock\_number  
suffix  
unit\_of\_issue  
bsp  
primary\_customer  
variation  
automatic\_po  
brand\_name\_ole\_source  
commodity\_assignment  
manufacturers\_name  
manufacturers\_partno  
description01  
description02  
description03  
description04  
description05  
description06  
description07  
description08  
description09  
description10  
description11  
description12  
description13  
description14  
description15  
description16  
description17  
description18  
description19  
description20  
description21  
description22  
description23  
description24  
description25  
description26  
description27  
description28  
description29  
description30  
description31  
description32  
description33  
description34  
description35  
description36  
description37  
description38  
description39  
description40



description41  
description42  
description43  
description44  
description45  
description46  
description47  
description48  
%Xend

An example of an item upload CDF is shown below:

```
%Xbegin
%Xpurpose      item upload
%Xfilename     ITEM CDF
%Xdestination_host  gatec.dui
%Xversion      2.4
%Xdate 93 12 11
%stock_number 1650010477140
%suffix
%unit_of_issue
%bsp
%primary_customer
%variation
%automatic_po
%brand_name_sole_source
%commodity_assignment
%manufacturers_name  MARQUARDT CO
%manufacturers_partno 100645-01
%description01 MARKET SURVEY
%description02 BELLCRANK-BUSHING
%description03 MFR: MARQUARDT CO
%description04 P/N: 100645-01
%description05
%description06
%description07
%description08
%description09
%description10
%description11
%description12
%description13
%description14
%description15
%description16
%description17
%description18
%description19
%description20
%description21
%description22
```

%description23  
%description24  
%description25  
%description26  
%description27  
%description28  
%description29  
%description30  
%description31  
%description32  
%description33  
%description34  
%description35  
%description36  
%description37  
%description38  
%description39  
%description40  
%description41  
%description42  
%description43  
%description44  
%description45  
%description46  
%description47  
%description48  
%Xend

---

### 6.2.6 Cancel Award CDF

---

The CDF used to upload award cancellation information to BCAS has the following parameters:

Xbegin  
Xpurpose  
Xfilename  
Xdestination\_host  
Xversion  
Xdate  
award\_piin  
supp\_piin  
activity\_no  
cac  
mod\_reason  
effective\_date  
f\_t\_d F  
contractor\_signs  
number\_of\_copies

suspense\_date  
cancel\_entirely  
cancel\_prs\_cust  
with\_reopen\_prs  
order\_statement01  
order\_statement02  
order\_statement03  
order\_statement04  
order\_statement05  
order\_statement06  
order\_statement07  
order\_statement08  
order\_statement09  
order\_statement10  
special\_prep  
new\_solit\_number  
contract\_number  
narrative01  
narrative02  
narrative03  
narrative04  
narrative05  
narrative06  
narrative07  
narrative08  
narrative09  
narrative10  
narrative11  
narrative12  
narrative13  
narrative14  
narrative15  
narrative16  
narrative17  
narrative18  
narrative19  
narrative20  
narrative21  
narrative22  
narrative23  
narrative24  
narrative25  
narrative26  
narrative27  
narrative28  
narrative29  
narrative30  
narrative31  
narrative32  
no\_reopen\_cr M  
w\_reasons

%Xend

An example of a cancel CDF is shown below,

```
%Xbegin
%Xpurpose      cancel award upload
%Xfilename      CANCEL AWARD CDF
%Xdestination_host  gatec.oui
%Xversion      2.4
%Xdate 93 12 15
%award_piin    94M6132
%supp_piin
%activity_no
%cac  G1D
%mod_reason    W
%effective_date 93DEC15
%f_t_d F
%contractor_signs    N
%number_of_copies
%suspense_date
%cancel_entirely      Y
%cancel_prs_cust      N
%with_reopen_prs      N
%order_statement01
%order_statement02
%order_statement03
%order_statement04
%order_statement05
%order_statement06
%order_statement07
%order_statement08
%order_statement09
%order_statement10
%special_prep  N
%new_solit_number
%contract_number
%narrative01  1. SUBJECT ORDER IS HEREBY CANCELLED IN ITS
%narrative02  ENTIRETY AS IT WAS AWARDED IN ERROR.
%narrative03
%narrative04  2. AS A RESULT OF THE ABOVE MODIFICATION, THE
%narrative05  TOTAL AMOUNT IS DECREASED FROM $43.47 TO $0.00
%narrative06  FOR A TOTAL DECREASE OF $43.47.
%narrative07
%narrative08
%narrative09
%narrative10
%narrative11
%narrative12
%narrative13
%narrative14
%narrative15
```

%narrative16  
%narrative17  
%narrative18  
%narrative19  
%narrative20  
%narrative21  
%narrative22  
%narrative23  
%narrative24  
%narrative25  
%narrative26  
%narrative27  
%narrative28  
%narrative29  
%narrative30  
%narrative31  
%narrative32  
%no\_reopen\_cr M  
%w\_reasons  
%Xend

---

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## SECTION 7 Appendices

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This section contains the appendices of this Guide.

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### 7.1 Appendix A - Directory Structure of the Database Machine

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**/home** - Contains GATEC specific software

gatecmgr - The gatecmgr user directory.

gatec2 - The gatec2 user directory.

**/home/gatec2** - Contains GATEC specific software.

bin - Will be a link to the sub directory which holds the current version's shell scripts and binary executables.

/home/gatec2/bin-gatec-<version\_id>\_<date> - A sub-directory that contains a version of GATEC binaries and shell scripts. /home/gatec2/bin will be linked to a directory like this. An example of the version 2.4.1 directory name is:

bin-gatec-241\_03DEC93

The files contained in a bin release sub-directory are shown below.

gen\_arch\_gatec.pl.sql - PL/SQL archiving routine. It moves RFQs out of the primary gatec database if their awarded date exceeds 90 days from the current date.

BCAScancelaward - Gateway script to upload canceled purchase orders to BCAS.

BCASitemupload - Gateway script to upload item description changes to BCAS.

BCASrunproc - Gateway script to run a WANG procedure.

BCASupload - Gateway script to upload awards (purchase orders).

ack\_cron\_pl - Perl script used to look for newly rejected and overdue documents.

acqerr - used by ack\_cron and putuploads\_cron to associate an error message with an acquisition in the GATEC database.

buyer\_stats - Bourne shell script to output a specified buyer's statistics to standard out.

cancelerrtouser - Bourne shell script used to send cancel award errors to specified users.

cdf\_check - Perl script that uses the regular expressions defined in /home/gatec2/etc/cdf\_regexp to grammatically check content of award upload, item upload, and cancel award upload CDFs.

close - Bourne shell script to close all OPEN RFQs.

daily - Bourne shell script used to close RFQ's in GATEC database after they have been open for a designated period of time. It is run as a cron

downloadPiins - Bourne shell script used to add new award piins to GATEC database.

downloadbsp - Bourne shell script used to add new buyers to GATEC database.

downloadch - Perl script used by getwangfiles to ftp files from WANG to a UNIX machine.

errtomgr - Bourne shell script used by \_cron files to send errors to the gatecmgr.

errtouser - Bourne Shell script used by \_cron files to send error information to specified users.

gatecb.oui - The GATEC server application.

get\_UTNNumber\_from\_cdf - Perl script used by putuploads\_cron to obtain UTN number from award CDF.

get\_login\_info - Uses ASCII file (login) in /home/gatec2/etc to obtain password for access to ORACLE/GATEC database under SQLPLUS.

get\_piin\_from\_cdf - Perl script used by putuploads\_cron to obtain piin number from upload CDF

getopr\_bsp\_cron3 - Bourne shell script run as cron to download

new RFQs into GATEC database (makes use of getwangfiles and BCASrunproc).

getstmtntship\_cron - Bourne shell script run as cron to load Shipping, Account, and Statement tables (makes use of getwangfiles and BCASrunproc).

getwangfiles - Bourne shell script used by getopr\_bsp\_cron3 and getstmtntship\_cron to ftp BCAS data from WANG to SPARC database machine

insertHolidays - Bourne shell script used to add Holiday information to GATEC database

itemerrtouser - Bourne shell script used to send item upload error information to specified users.

lead\_buyer.dui - The GATEC server Lead Buyer application.

putuploads\_cron - Bourne shell script run as cron to upload award information to BCAS. Makes use of BCASupload, seluploadcdf and the "C" queue routines (see below).

qadditem - "C" queue executable used to add item to a queue.

qallstatus - "C" queue executable used to obtain status of all queues.

qkeypop - "C" queue executable used to pop item off a queue based on specified key.

qlist - "C" queue executable used to list items on a queue.

qpop - "C" queue executable used to pop unspecified item off a queue.

qsetstatus - "C" queue executable used to set status of a queue.

qstatus - "C" queue executable used to obtain status of a specific queue.

readopr2 - Executable used to load information contained in OPR, Item, and Nomenclature tables (recall those tables are loaded via the getopr\_bsp\_cron3 cron) into the GATEC database.

remoldfiles\_cron - Bourne shell script that can be run as cron to remove old files from a specified directory (e.g. /home/gatec2/tmp).

selcancelcdf - Perl script which writes all non blank fields in a cancel CDF to standard out.



selitemcdf - Perl script which writes all non blank fields in an item CDF to standard out.

seluploadcdf - Perl script which writes all non blank fields in an upload CDF to standard out.

serialserver.csh - Sets up buyer environment under C shell (not used).

serialserver.oui - Defines location of shared libraries for GATEC application. This is the shell file that sets up a buyers environment for Bourne Shell. It is executed before the buyer's GATEC application executes.

server - Actual application that starts gatec.oui application.

server.oui - Used by TTY client for initializing sockets.

setUTN\_aw\_to\_cl - PL/SQL script used by putuploads\_cron to change a state of an acquisition from AWARDED to CLOSED.

setUTN\_ignoreack - PL/SQL script used by putuploads\_cron to tell database to ignore acknowledgment checking.

sh\_get\_login\_info - Uses ASCII file (login) in /home/gatec2/etc to obtain password for access to ORACLE/GATEC database under SQLPLUS.

sys\_param.oui - The GATEC server System Parameter manager.

tty\_client - GATEC client application that provides a tty interface. A buyer could run this application on a SPARC.

upload\_bcas\_cancel\_award\_cron - Bourne shell script run as cron that uploads cancel award information to BCAS. Makes use of BCAScancelaward, and selcancelcdf.

upload\_bcas\_item\_desc\_cron - Bourne shell script run as cron that uploads item description information to BCAS. Makes use of BCASitemupload and selitemcdf.

/home/gatec2/lib - Will be a link to the sub-directory which holds the shared libraries used by the GATEC application binaries.

/home/gatec2/lib-gatec-<version\_id>\_<date> - A version of GATEC libraries. /home/gatec2/lib will be linked to a directory like this. An example of the version 2.4.1 directory name is:

lib-gatec-241\_03DEC93

The files contained in a lib sub-directory are shown below:

libC.sa.3.0 - Global data library (not used).

libC.so.3.0 - Shareable C library for GATEC application.

libdui\_comm.sa.1.0 - Global data library for client and server (not used).

libdui\_comm.so.1.0 - Shareable DUI communications library for client and server.

libduit.sa.1.0 - Global data DUI toolkit library for client and server (not used).

libduit.so.1.0- Shareable DUI toolkit library for client). and server.

libnarq.sa.1.0 - Global data NARQ library (not used).

libnarq.so.1.0 - Shareable NARQ (database interface) library for GATEC application.

libnarq\_util.sa.1.0 - Global data NARQ utilities library (not used).

libnarq\_util.so.1.0 - Shareable NARQ utilities library for GATEC application.

libnora.sa.1.0 - Global data NORA library (not used).

libnora.so.1.0 - Shareable NORA (NARQ support) library for GATEC application.

The "lib" directory will also have two sub-directories named ctl and sql

/home/gatec2/lib-gatec-<version\_id>\_<date>/ctl - Will contain the Oracle control files that initialize the database tables which are used by the getopr\_bsp\_cron3, getstmntship\_cron crons, and the readopr2 binary

Acctg.ctl - BCAS accounting information table load script.

Item2.ctl - BCAS item information table load script.

Nomenclature2.ctl - BCAS nomenclature information table load script.

PreOpr2.ctl - OPR table (which will hold all requisitions of interest for the current download) load script.

Ship.ctl - BCAS shipping information table load script.

Stmnt.ctl - BCAS statement information table load script.

Vadrs.ctl - BCAS vendor address information table load script.

/home/gatec2/lib-gatec-<version\_id>\_<date>/sql - Will contain the Oracle control files that define data base tables which are used by the getopr\_bsp\_cron3, getstmtship\_cron crons, and the readopr2 binary.

Acctg.sql - BCAS accounting information table definition.

Item.sql - BCAS item information table definition.

Nomenclature.sql - BCAS nomenclature information table definition.

Opr.sql - Definition of OPR table (will hold max. 12 RFQs).

PreOpr.sql - Definition of Pre Opr table which will hold all requisitions of interest for the current download.

Ship.sql - BCAS shipping information table definition.

Stmnt.sql - BCAS statement information table definition.

Vadrs.sql - BCAS vendor address information table definition.

/home/gatec2/tmp - Will contain the CDF files generated by the GATEC application. Periodically this directory is automatically cleaned to prevent it from over flowing. The names of the files in the directory will have the following form:

840<four\_alpha\_chars><five\_digits> (e.g. 840HAAk12345)

This CDF can produce a X12 840.

850<four\_alpha\_chars><five\_digits> (e.g. 850KLMa78912)

This CDF can produce a X12 850.

836<four\_alpha\_chars><five\_digits> (e.g. 836OPWa23456)

This CDF can produce a X12 836.

BCAS<four\_alpha\_chars><five\_digits> (e.g. BCASSWRt31890)

Used for upload of award information to BCAS.

/home/gatec2/etc - Will contain three files:

`cdf_regexp` - Contains valid regular expressions (grammar of BCAS CDF parameters, e.g. a UTN number is 16 characters, the first being alphanumeric, the next five being digits, etc) which are used by the regular expression checker `cdf_check`, to verify data being uploaded to BCAS is grammatically correct.

`dblogin` - Contains the database login information (for the primary database, and the archive database) used by the `sh_get_login_info` script as well as the "CDF to DB" software.

`login` - Contains the database login information (for the primary database) used by the `get_login_info` shell script.

/home/gatec2/PC - Will contain sub-directories which contain a version of the PC executable client binaries and resource files. The sub-directory names will have the form:

`release_<version><date>` e.g. `release-2.4.103DEC93`

Executable and resource files which comprise a release are:

`windui.exe` - Client gatec executable.

`setup.exe` - Executable that produces `com.cfg` file that sets up serial communication port for PC communication with SPARC 10.

`network.scr` - ASCII file contains login for client.

`pause.scr` - ASCII file contains pause time when client blocks.

`com.cfg` - Output of `setup.exe`.

`discon.scr` - The disconnect script.

`wres.res` - ASCII file defining object placement on GATEC screens.

`unissue1.bmp` - Bitmap for UNISSUED picture on GATEC workload screen.

`unishl1.bmp` - Bitmap for UNISSUED HOLD picture on GATEC workload screen.

`open1.bmp` - Bitmap for OPEN picture on GATEC workload

screen.

closed1.bmp - Bitmap for CLOSED picture on GATEC workload screen.

closedhld.bmp - Bitmap for CLOSED HOLD picture on GATEC workload screen.

overdue1.bmp - Bitmap for OVERDUE picture on GATEC workload screen.

awarded1.bmp - Bitmap for AWARDED picture on GATEC workload screen.

unread1.bmp - Bitmap for UNREAD picture on GATEC workload screen.

errors.bmp - Bitmap for ERRORS picture on GATEC workload screen.

See the "Internal Description and Maintenance Guide" for more details on the PC client software

**/home/bcas** - Contains GATEC specific software.

/home/bcas - contains log files that record item description upload, and cancel RFQ upload. Also holds some data files FTP'd from the WANG. The item upload, and cancel log files are described below,

item\_upload\_trace - A summary of all item uploads is placed in the file.

item\_upload\_errors - A summary of all item upload errors is placed in the file.

item-upload-record - Diagnostic gateway output for all item upload transactions is placed in this file

cancel\_award\_trace - A summary of all cancel uploads is placed in this file.

cancel\_award\_errors - A summary of all cancel errors is placed in the file

cancel\_award\_record - Diagnostic gateway output for all cancel transactions is placed in this file.

/home/bcas/que - contains files holding queue information on

every queue used for BCAS interaction (specifically, the bcasupload, bcascancel, and bcasitem queues).

bcascancel.dat

bcascancel.idx

bcasitem.dat

bcasitem.idx

bcasupload.dat

bcasupload.idx

qmanager.dat

qmanager.idx

/home/bcas/items - Will contain sub-directories which contain item description upload files which could not be uploaded to BCAS. Directory names will have form: errDir<four\_digit\_number> (e.g. errDir2355).

**/home/gatecmgr** - Contains GATEC specific software.

Contains home directory files for gatec manager.

set\_ecedi\_env - executes script that sets up environment for gatecmgr operations

fwd - file that forwards gatecmgr mail to designated users. Since errors are usually mailed to the gatecmgr this is a way an individual can be informed of system errors.

handleItemFiles - directory that contains scripts for deleting used item description and cancel award upload files from /var/tmp

mbox - the gatecmgr mail box

**/home/gatecmgr/handleItemFiles** - Contains GATEC specific software.

extractItemResults - Bourne Shell script to remove item files in /var/tmp which have been successfully uploaded to BCAS. Moves files that have an associated error to /home/bcas/items/errDir<four\_digit\_number>. Requires input file containing SMTP e-mail messages from the upload\_bcas\_item\_desc cron (known as "Final item upload results" message. These can be obtained from the gatecmgr mail box by searching for the word "Final item" in the subject line).

itemGarbageCollector - For item files not mentioned in email messages, but still found in /var/tmp, will either delete or queue file depending on whether the stock number is found in the /home/bcas/item\_upload\_trace file.

extractCancelResults - Bourne Shell script to remove cancel files in /var/tmp which have been successfully uploaded to BCAS. Moves files that have an associated error to /home/bcas/items/errCancelDir<four\_digit\_number>. Requires input file containing SMTP e-mail messages from the upload\_cancel\_award\_cron (known as "Final cancel upload results" message. These can be obtained from the gatecmgr mail box by searching for the word "Final cancel" in the subject line).

cancelGarbageCollector - For cancel files not mentioned in email messages, but still found in /var/tmp, will either delete or queue file depending on whether the piin number is found in the /home/bcas/cancel\_upload\_trace file.

read\_cancel\_err\_names - Used by extractCancelResults to create a Bourne Shell script to move cancel CDFs which have errors associated with them.

read\_item\_err\_names - Used by extractItemResults to create a Bourne Shell script to move item CDFs which have errors associated with them.

read\_succ\_names - Used by extractCancelResults and extractItemResults to create Bourne Shell script to remove cancel and item CDFs whose data has been successfully uploaded to BCAS.

**/home/ecedi** - Contains GATEC support software. In general file functionality will not be described in this document for support software. For further details on the EC-EDI directories consult the *EC-EDI Configuration Management* document [REF007]

Env.sh, Env.csh - script to set up "standard" electronic commerce (EC) environment necessary for the gatecmgr to run its crons. This essentially allows the gatecmgr to use the gateway interpreter to run the BCAS interface scripts (i.e. BCASdownload through getopr\_bsp\_cron3, BCASupload through putuploads\_cron, BCASitemupload through upload\_bcas\_item\_desc\_cron, and BCAScancelaward through upload\_bcas\_cancel\_award\_cron).

The rest of the sub-directories in EC-EDI directory are described below

**/home/ecedi/bin** - Contains GATEC support software.

Contains the following executables, the only noteworthy one for GATEC applications being the gateway interpreter and the TM (Trusted Mail) applications.

- am-format
- am-print
- apw
- autoauth
- bugrpt
- certqst
- co-pilot
- comment
- createdbs
- dates
- db\_tool
- decryptpw
- dos-mounter.hqx
- dpw
- ec
- format
- gateway - the gateway interpreter
- gatewaypw
- gpw
- kermit
- liftran
- mcal
- pager
- percal
- pop3
- pop\_add
- pop\_passwd
- pop\_vipw
- rb
- rolo
- rx
- rz
- saveon
- sb
- setupecuser
- sx
- sz
- termstran
- tm - Trusted Mail application
- wp

**/home/ecedi/doc** - Contains GATEC support software.

- banner.help
- mailmsg
- mailmsg.help



online.help  
online.index

**/home/ecedi/etc** - Contains GATEC support software.

passwd - example password file

**/home/ecedi/help** - Contains GATEC support software.

advanced  
appointments  
authusers  
certhelp1  
certhelp2  
certhelp3  
dolist  
intro  
menus  
overdue  
overview  
printouts  
short  
short.appt  
short.auth  
short.do  
short.over  
short.print  
short.sus  
startup  
suspenses

**/home/ecedi/lib** - Contains GATEC support software.

co-pilotd  
lmail  
mail.cf  
mail.rc  
popperd  
tmlockd  
tmpreserve  
foreauth

**/home/ecedi/lib/Config.notes** - Contains GATEC support software.

co-pilot  
dostm  
tm

**/home/ecedi/lib/Instnotes** - Contains GATEC support

software.

report  
tm

**/home/ecedi/lib/calendar** - Contains GATEC support software.

**/home/ecedi/lib/doc** - Contains GATEC support software.

dialog.files  
fulltext.doc  
tm-doc  
tm-terms

**/home/ecedi/lib/envs** - Contains GATEC support software.

**/home/ecedi/lib/envs/ecedi** - Contains GATEC support software.

banner  
header  
menu  
thanks  
trailer

**/home/ecedi/lib/envs/ecedi/help** - Contains GATEC support software.

MASTER

abft  
abft.1  
abft.2  
abft.3  
abft.4  
abft.5  
abi  
abi.1  
abi.2  
abi.3  
abi.4  
abi.5  
add-access  
aerospace  
all-print  
allnews  
allnews.1  
allnews.2

allnews.3  
allnews.4  
allnews.5  
ap  
ap.1  
ap.2  
ap.3  
ap.4  
ap.5  
appt  
appt-con  
appt-one  
appt-print  
appt-review  
appt-week  
army  
auto  
autopilot  
autopilot.1  
autopilot.3  
bbs  
bugrpt  
bus  
cal  
cbd  
cbd.1  
cbd.2  
cbd.3  
cbd.4  
cbd.5  
certrqst  
certrqst.2  
certrqst.3  
change-width  
chg-hdr  
chg-pers  
cis  
cis.1  
cis.2  
cis.3  
cis.4  
cis.5  
cmptr-db.1  
cmptr-db.2  
cmptr-db.3  
cmptr-db.4  
cmptr-db.5  
co-pilot  
comment  
commercial  
compare

compuserve  
compuserve.1  
compuserve.3  
compusrv.ap  
computer-db  
congress  
congress.1  
congress.2  
congress.3  
congress.4  
congress.5  
converse  
copy  
count  
cp-o  
cp-p  
cpo-link  
cpo-link.1  
cpo-link.3  
cpo-link.6  
create-grp  
create-grp.1  
customer  
daily  
date-create  
date-delete  
date-manage  
date-print  
date-scan  
date-set  
date-share  
date-view  
datebook  
ddn.ap  
delete-acc  
delete-grp  
dialog  
dialog.1  
dialog.3  
dialog.4  
dialog.acci  
dialog.menu  
dialogtp  
dialogtp.3  
dialogtp.4  
directory  
display  
dla  
doe-energy  
dolist  
dolist-print

easylink  
easylink.1  
easylink.3  
easylink.ap  
ectn  
ectn.1  
ectn.3  
ectn.ap  
ecx  
edi  
edi-demo  
edi-van  
edit-env  
editors  
eucom  
ex  
fed-index  
fed-index.1  
fed-index.2  
fed-index.3  
fed-index.4  
fed-index.5  
fed-regs  
fed-regs.1  
fed-regs.2  
fed-regs.3  
fed-regs.4  
fed-regs.5  
fed-rgstr  
fed-rgstr.1  
fed-rgstr.2  
fed-rgstr.3  
fed-rgstr.4  
fed-rgstr.5  
file  
filing  
find  
flx-link  
flx-link.1  
flx-link.3  
flx-link.6  
format  
formfeed  
fulltext  
fulltext.1  
fulltext.2  
fulltext.3  
fulltext.4  
fulltext.5  
gatepass  
glbl-choice

gov  
government  
govmktg.menu  
gpo  
gpo.1  
gpo.2  
gpo.3  
gpo.4  
gpo.5  
help  
help-cmds  
help-global  
help-gloss  
help-help  
help-menus  
help-options  
help-poc  
help-type  
info  
intro  
join  
kermit  
lif  
lif.1  
lif.2  
lif.3  
lin-link  
lin-link.1  
lin-link.3  
lin-link.6  
link-tem  
link-tem.1  
link-tem.2  
link-tem.3  
list  
list-access  
list-grp  
little  
little.1  
little.2  
little.3  
little.4  
little.5  
lookup  
lowercase  
mail  
mci  
mci-fax  
mci-fax.1  
mci-fax.3  
mci-logon

mci-logon.1  
mci-logon.3  
mci-telex  
mci-telex.1  
mci-telex.3  
mcimail  
mcimail.1  
mcimail.3  
mcimail.ap  
memo  
mesg  
micro-index  
moderator  
modify  
modify-grp  
modify-grp.1  
move  
msg  
mtmc  
networks  
news  
newsearch  
newsearch.1  
newsearch.2  
newsearch.3  
newsearch.4  
newsearch.5  
newswire  
newswire.1  
newswire.2  
newswire.3  
newswire.4  
newswire.5  
nni  
nni.1  
nni.2  
nni.3  
nni.4  
nni.5  
ntis  
numbers  
oag  
oag.1  
oag.2  
oag.3  
oag.4  
oag.5  
office  
othermail  
overdue  
overdue.1

overdue.3  
password  
pers-add  
pers-comm  
pers-disp  
pers-menrem  
pers-menu  
pers-remove  
phonebook  
phonemsg  
plus  
post  
presstext  
presstext.1  
presstext.2  
presstext.3  
presstext.4  
presstext.5  
print  
print-host  
print-opts  
printers  
priority  
protect  
rdm-link  
rdm-link.1  
rdm-link.3  
rdm-link.6  
remind  
remind-print  
rename  
rename-grp  
rename-grp.1  
replace  
report  
review  
rms-link  
rms-link.1  
rms-link.3  
rms-link.6  
samms  
samms.1  
samms.2  
samms.3  
samms.4  
samms.5  
savedmail  
search  
sendmail  
sentmail  
setup



share  
sort  
soviet  
soviet.1  
soviet.2  
soviet.3  
soviet.4  
soviet.5  
spaces  
special  
spell  
speller  
spelling  
split  
stg-link  
stg-link.1  
stg-link.3  
stg-link.6  
supervisor  
survey  
tabs  
talk  
tcp  
tech  
terms  
terms.1  
terms.2  
terms.3  
terms.4  
text  
timer  
tm  
tm-doc  
tm-env  
tm-general  
tm-general.1  
tm-general.2  
tm-general.3  
tm-groups  
tm-grp  
tm-heade  
tm-header  
tm-intro  
tm-options  
tm-personal  
tm-pri-list  
tm-procomm  
tm-procomm.1  
tm-procomm.2  
tm-procomm.3  
tm-terms

tm-ws  
trade  
trade.1  
trade.2  
trade.3  
trade.4  
trade.5  
transcript  
transfer  
translate  
trinet  
trinet.1  
trinet.2  
trinet.3  
trinet.4  
trinet.5  
tymnet  
tymnet-info  
tymnet.1  
tymnet.3  
tymnet.ap  
typeset  
typewrite  
upi  
upi.1  
upi.2  
upi.3  
upi.4  
upi.5  
uppercase  
user  
vi  
who  
write  
z

**/home/ecedi/lib/envs/ecedi/scripts** - Contains GATEC support software.

abft  
abi  
add-access  
aerospace  
all-print  
allnews  
ap  
appt-con  
appt-one  
appt-print  
appt-review

appt-week  
autopilot  
cal  
cbd  
certrqst  
change-width  
chg-hdr  
chg-pers  
cis  
compare  
compuserve  
computer-db  
congress  
copy  
count  
cp-o  
cp-p  
cpo-link  
create-grp  
daily  
dailyawk  
date-create  
date-delete  
date-scan  
date-set  
date-view  
delete-acc  
delete-grp  
dialog  
directory  
display  
doe-energy  
dolist  
dolist-print  
easylink  
ectn  
edi-demo  
edit-env  
ex  
fed-index  
fed-regs  
fed-rgstr  
file  
find  
fixtmrc  
flx-link  
formfeed  
fulltext  
gatepass  
gpo  
info

join  
lif  
lin-link  
list  
list-access  
list-grp  
little  
lookup  
lowercase  
mail  
mci-fax  
mci-logon  
mci-telex  
mcimail  
memo  
mesg  
micro-index  
modify-grp  
move  
msg  
newsearch  
newswire  
nni  
ntis  
numbers  
oag  
othermail  
overdue  
password  
pers-add  
pers-comm  
pers-disp  
pers-menrem  
pers-remove  
phonebook  
phonemsg  
post  
presstext  
print  
print-host  
print-opts  
priority  
rdm-link  
remind  
remind-over  
remind-print  
rename  
rename-grp  
replace  
review  
rms-link

samms  
savedmail  
search  
sentmail  
share  
sort  
soviet  
spaces  
spell  
speller  
split  
stdplus  
stg-link  
survey  
tabs  
talk  
tcp  
terms  
timer  
tm-general  
tm-header  
tm-options  
tm-pri-list  
tm-procomm  
tools  
trade  
transcript  
trinet  
tymnet  
tymnet-info  
typeset  
typewrite  
upi  
uppercase  
vi  
who  
write

**/home/ecedi/lib/envs/ecedi/scripts/tools** - Contains  
GATEC support software.

backgnd-lif  
backgnd-trms  
box-example  
communicate  
compose-mail  
daily-lif  
daily-terms  
dates.awk  
dialog  
dialog-acct

dialog-an  
dialog-date  
dialog-fmt  
dialog-funct  
dialog-key  
dialog-send  
editor  
find-mail  
gen-account  
gen-chk-auth  
gen-main  
gen-mode  
gen-password  
gen-read-def  
gen-review  
gen-review2  
gen-system  
gen-term  
gen-who  
lif-fun  
lif-key  
lif-main  
lif-send  
lif-term-fun  
lif\_filter  
link-main  
mod-grp-awk  
samms-func  
saveon-main  
saveon-post  
saveon-pre  
string-funct  
terms-fun  
terms-option  
terms-send  
tm-trans  
tran-spaces  
translate  
tymnet-trans

**/home/ecedi/lib/gateway** - Contains GATEC support software.

baudtable  
gatewaylog  
modemtable

**/home/ecedi/lib/gateway/coredir** - Contains GATEC support software.

**/home/ecedi/lib/gateway/doc** - Contains GATEC support software.

banner.help  
gateway.doc  
online.doc  
online.help  
online.index

**/home/ecedi/lib/gateway/filters** - Contains GATEC support software.

dialogtout  
kermit  
termstout  
umodem

**/home/ecedi/lib/gateway/macrolib** - Contains GATEC support software.

CDCMAILlogon  
CYBERlogout  
UNIXlogin  
UNIXlogout  
aiswitch  
anyparity  
atoi  
checkauth  
dateconvert  
dial  
dial2  
dialout  
echooutput  
evenparity  
filter  
finish  
flow-off  
flow-on  
full  
getconnect  
getlp  
getopt  
globals  
half  
hatchar  
hayes  
hayes2  
help  
imdi

lcase  
linedrop  
linedrop2  
micom  
micomlan  
mt224  
network  
network2  
oddpairity  
printall-off  
printall-on  
retry\_modem  
sammslogin  
slowoutput  
telenet  
telsuba  
telsubb  
terminate  
terminate2  
traps  
ttytrap  
tymnet  
ucase  
uninet  
unixlogin2  
va212  
verbose-off  
verbose-on

**/home/ecedi/lib/gateway/phones** - Contains GATEC support software.

phsample

**/home/ecedi/lib/gateway/wire** - Contains GATEC support software.

ttysample

**/home/ecedi/lib/gateway/wire/dev** - Contains GATEC support software.

ttysample

**/home/ecedi/lib/man** - Contains GATEC support software.

ec  
pager



percal  
rz.1  
sz.1  
tm

**/home/ecedi/lib/misc** - Contains GATEC support software.

BUGNBR  
CMTNBR

**/home/ecedi/lib/phonebook** - Contains GATEC support software.

addhelp  
addinfo  
entrymenu  
escanhelp  
esearchhelp  
fldsrchhlp  
lockinfo  
mainmenu  
moptionhelp  
moptionshelp  
pckntrymn  
poptionmenu  
poptionshelp  
updatehelp  
updatemenu

**/home/ecedi/pop\_mail** - Contains GATEC support software.

Example

**/home/ecedi/spool** - Contains GATEC support software.

**/home/ecedi/spool/download** - Contains GATEC support software.

Example

**/home/ecedi/spool/homedir** - Contains GATEC support software.

**/home/oracle** - Contains COTS software. In general, file functionality will not be described in this section for COTS software. For further details on the ORACLE directories consult

the *ORACLE for Sun 4 Installation and User's Guide* [REF008].

initial-count.sql

**/home/oracle/bin** - Contains COTS software.

archmon  
coraenv  
crt  
crtins  
cursize  
dbfsz  
dbfsz  
dbhome  
dbshut  
dbstart  
demobld  
demodrop  
dumprep  
echodo  
exp  
expO  
genksms  
genosntab  
genrep  
gensyslib  
helpins  
imp  
impO  
itd  
loadrep  
maxmem  
moverep  
oerr  
opendev  
oracle  
oracle.OLD  
oracleO  
oraenv  
orasrv  
printdef  
pupbld  
runrep  
sqldb  
sqldbO  
sqldr  
sqlplus  
sqlrep  
tcpctl  
tputl  
termdef

tkprof  
tstshm  
usercheck

**/home/oracle/crt/admin** - Contains COTS software.

4410.sql  
4415.sql  
4420.sql  
4425.sql  
513.sql  
5620.sql  
605.sql  
610.sql  
615.sql  
620.sql  
630.sql  
705.sql  
730.sql  
ANSI.crt  
AT386.crt  
BITMAP.crt  
Cmcae.sql  
NeXTTerm.sql  
QA.sql  
SPARCXT.crt  
SUN-CMD.crt  
SUN.crt  
VT100.crt  
VT102.crt  
VT220.crt  
XBITMAP.crt  
XTERM.crt  
ansi.sql  
at386.sql  
bitmap.sql  
cit500.sql  
crt.inp  
crt.log  
crttab.sql  
ct.sql  
default.crt  
gg.sql  
gigi.sql  
2392.sql  
hp2397.sql  
hp2622.sql  
hp2627.sql  
ibm3270.sql  
ibm3270b.sql  
ibm3270c.sql

ibm3270h.sql  
ibm3270u.sql  
ibm3270v.sql  
mac2.sql  
ncd101.sql  
owl.sql  
pc52.sql  
pc7300.sql  
pt.sql  
sparcxt.sql  
sun-cmd.sql  
sun5.sql  
sun5x.sql  
sunx.sql  
sunx23.sql  
tek88.sql  
vk100.sql  
vt100.sql  
vt102.sql  
vt200.sql  
vt220.sql  
vt330.sql  
vt340.sql  
vt52.sql  
vtapollo.sql  
wyse50.sql  
xbitmap.sql  
xterm.sql

**/home/oracle/crt/install** - Contains COTS software.

CRT.DIST  
crt.install  
crt.key  
crt.verify

**/home/oracle/crt/lib** - Contains COTS software.

crt.mk  
crtdrv.o  
libcrt.a  
libcrt.aO

**/home/oracle/crt/man** - Contains COTS software.

crt.l  
crtins.l  
cvtcrt.l

**/home/oracle/dbs** - Contains COTS software.

cntrlgatec.dbf  
init.ora  
initbig.ora  
initgatec.ora  
initgatec.ora-small  
initmed.ora  
sgadefgatec.dbf  
sql.bsq

**/home/oracle/install** - Contains COTS software.

INSTALL.DIST  
bt\_comp\_rel.sh  
deinstall  
link.mk  
mergelib  
oracle.boot  
oracle.install  
oracle.key  
oracle.patch  
oracle.verify  
patch.README  
prtversion.sh  
read.sh  
root.install  
root.key  
setup.ins  
setup.ve  
testdrive.sh

**/home/oracle/install/runtime** - Contains COTS software.

INSTALL.DIST  
oracle.install  
setup.ins

**/home/oracle/loader2/admin** - Contains COTS software.

ulview.sql

**/home/oracle/loader2/demo** - Contains COTS software.

case.sql  
case2ctl  
case2.dat  
case2.log  
case2.out

**/home/oracle/loader2/doc** - Contains COTS software.

README.doc  
read.me

**/home/oracle/loader2/install** - Contains COTS software.

LOADER2.DIST  
ldr2.install  
ldr2.verify  
ldr2\_ver.out  
loader2.key

**/home/oracle/plsql/demo** - Contains COTS software.

README  
alter.sql  
bankdemo.lis  
bankdemo.pc  
bankdemo.sql  
buildtab.itd  
buildtab.sql  
create\_pls.itd  
demo1.sql  
demo1pl.sql  
demo2.sql  
demo2pl.sql  
demo3.sql  
demo3pl.sql  
demo4.sql  
demo4pl.sql  
demo5.sql  
demo5pl.sql  
demo\_1.itd  
demo\_2.itd  
demo\_3.itd  
demo\_4.itd  
demo\_5.itd  
demo\_bank.itd  
demobld.itd  
demobld.sql  
enterdat.itd  
enterdat.sql  
examp1.sql  
examp10.sql  
examp11.sql  
examp12.sql  
examp13.sql  
examp14.sql  
examp2.sql  
examp3.sql

examp4.sql  
examp5.sql  
examp6.pc  
examp7  
examp7.c  
examp7.data  
examp7.lis  
examp7.pc  
examp8.sql  
examp9.sql  
examp\_1.itd  
examp\_10.itd  
examp\_11.itd  
examp\_12.itd  
examp\_13.itd  
examp\_14.itd  
examp\_2.itd  
examp\_3.itd  
examp\_4.itd  
examp\_5.itd  
examp\_6.itd  
examp\_7.itd  
examp\_8.itd  
examp\_9.itd  
loaddemoa.sql  
loaddemob.sql  
longname.sql  
sample1.sql  
sample2.sql  
sample3.sql  
sample4.sql  
sample5.pc  
sample\_1.itd  
sample\_2.itd  
sample\_3.itd  
sample\_4.itd  
sample\_5.itd  
setacct.sql  
setemp.sql  
setinv.sql  
setsales.sql  
verplsql.sh

**/home/oracle/plsql/doc** - Contains COTS software.

README.doc

**/home/oracle/plsql/install** - Contains COTS software.

PLSQL.DIST  
plsql.install

plsql.key  
plsql.verify  
plsql\_ver.out

**/home/oracle/plsql/install/runtime** - Contains COTS software.

PLSQL.DIST  
plsql.install

**/home/oracle/plsql/lib** - Contains COTS software.

libpls.a  
libpls.aO  
scmstr.o

**/home/oracle/rdbms/admin** - Contains COTS software.

blocking.sql  
bstat.sql  
catalog.sql  
catalog5.sql  
dba\_syn.sql  
dd\_update.sql  
dispidxs.sql  
dropcat5.sql  
estat.sql  
expvew.sql  
expvew5.sql  
idxstat.sql  
locktree.sql  
monitor.sql  
oneidxs.sql  
report.txt  
sqlbld.sql  
xplainpl.sql

**/home/oracle/rdbms/doc** - Contains COTS software.

README.doc  
explain.doc  
idxstat.doc  
migrate.doc  
readme.txt  
recovery.doc  
tkprof.doc  
vms\_readme.doc

**/home/oracle/rdbms/install** - Contains COTS software.



RDBMS.DIST  
rdbms.install  
rdbms.key  
rdbms.verify  
rdbms\_ver.out

**/home/oracle/rdbms/install/runtime** - Contains COTS software.

RDBMS.DIST  
rdbms.install

**/home/oracle/rdbms/lib** - Contains COTS software.

config.c  
config.o  
ksms.o  
ksms.s  
libexp.a  
libexp.aO  
libimp.a  
libimp.aO  
libknl.a  
libknl.aO  
liboci14c.a  
liboci14c.aO  
libocic.a  
libora.a  
libora.aO  
libosdgen.a  
libpcc14.a  
libpls.a  
libpsd14.a  
libsql.a  
libsql14.a  
libsql14.aO  
libsqldb.a  
libsqldb.aO  
libsqlnet.a  
libtma.a  
opimai.o  
oracle.mk  
oradbx.o  
osntab.c  
osntab.o  
pls dum.o  
sysliblist

**/home/oracle/rdbms/log** - Contains COTS software.

Will contain log files (.trc) for database.

**/home/oracle/rdbms/man** - Contains COTS software.

arch.l  
coraenv.l  
cursize.l  
dbhome.l  
dbshut.l  
dbstart.l  
dbwr.l  
export.l  
genosntab.l  
import.l  
lgwr.l  
maxmem.l  
oerr.l  
oracle.l  
oraenv.l  
pmon.l  
smon.l  
sqldba.l  
tstshm.l

**/home/oracle/rdbms/mesg** - Contains COTS software.

dbacs.msg  
dbad.msb  
dbad.msg  
dbadk.msb  
dbadk.msg  
dbae.msb  
dbae.msg  
dbael.msg  
dbaf.msb  
dbaf.msg  
dbahu.msg  
dbai.msb  
dbai.msg  
dban.msb  
dban.msg  
dbanl.msb  
dbanl.msg  
dbapl.msg  
dbapt.msg  
dbaptb.msg  
dbaru.msg  
dbas.msb  
dbas.msg  
dbasf.msb  
dbasf.msg

dbask.msg  
dbatr.msg  
dbaus.msb  
dbaus.msg  
expcs.msg  
expd.msb  
expd.msg  
expdk.msb  
expdk.msg  
expe.msb  
expe.msg  
expel.msg  
expf.msb  
expf.msg  
exphu.msg  
expi.msb  
expi.msg  
expn.msb  
expn.msg  
expnl.msb  
expnl.msg  
exppl.msg  
exppt.msg  
expptb.msg  
expru.msg  
exps.msb  
exps.msg  
expsf.msb  
expsf.msg  
expsk.msg  
exptr.msg  
expus.msb  
expus.msg  
imps.msg  
impd.msb  
impd.msg  
impdk.msb  
impdk.msg  
impe.msb  
impe.msg  
impel.msg  
impf.msb  
impf.msg  
imphu.msg  
impi.msb  
impi.msg  
impn.msb  
impn.msg  
impnl.msb  
impnl.msg  
imppl.msg

imppt.msg  
impptb.msg  
impru.msg  
imps.msb  
imps.msg  
impsf.msb  
impsf.msg  
impsk.msg  
imptr.msg  
impus.msb  
impus.msg  
kumcs.msg  
kumd.msg  
kumdk.msg  
kume.msg  
kumel.msg  
kumf.msg  
kumhu.msg  
kumi.msg  
kumn.msg  
kumnl.msg  
kumpl.msg  
kumpt.msg  
kumptb.msg  
kumru.msg  
kums.msg  
kumsf.msg  
kumsk.msg  
kumtr.msg  
lcdcs.msg  
lcdd.msb  
lcdd.msg  
lcddk.msb  
lcddk.msg  
lcde.msb  
lcde.msg  
lcdel.msg  
lcdf.msb  
lcdf.msg  
lcdhu.msg  
lcdi.msb  
lcdi.msg  
lcdn.msb  
lcdn.msg  
lcdnl.msb  
lcdnl.msg  
lcdpl.msg  
lcdpt.msg  
lcdptb.msg  
lcdru.msg  
lcds.msb

lcds.msg  
lcdsf.msb  
lcdsf.msg  
lcdsk.msg  
lcdtr.msg  
lcdus.msb  
lcdus.msg  
oracs.msb  
oracs.msg  
orad.msb  
orad.msg  
oradk.msb  
oradk.msg  
orae.msb  
orae.msg  
orael.msb  
orael.msg  
oraf.msb  
oraf.msg  
orahu.msb  
orahu.msg  
orai.msb  
orai.msg  
oran.msb  
oran.msg  
oranl.msb  
oranl.msg  
orapl.msb  
orapl.msg  
orapt.msb  
orapt.msg  
oraptb.msb  
oraptb.msg  
oraru.msb  
oraru.msg  
oras.msb  
oras.msg  
orasf.msb  
orasf.msg  
orask.msb  
orask.msg  
oratr.msb  
oratr.msg  
oraus.msb  
oraus.msg  
sqlus.msb  
sqlus.msg

**/home/oracle/sqlplus** - Contains COTS software.

helpindx.lis

helptbl.lis

**/home/oracle/sqlplus/admin** - Contains COTS software.

glogin.sql  
pupbld.sql

**/home/oracle/sqlplus/admin/help** - Contains COTS software.

helpindx.sql  
helptbl.sql  
plushelp.ctl

**/home/oracle/sqlplus/demo** - Contains COTS software.

banner.itd  
buildtab.itd  
demobld.sql  
demodrop.sql  
select.itd  
verplus.sh

**/home/oracle/sqlplus/doc** - Contains COTS software.

README.doc

**/home/oracle/sqlplus/install** - Contains COTS software.

SQLPLUS.DIST  
plus.install  
plus.verify  
plus\_ver.out  
sqlplus.key

**/home/oracle/sqlplus/install/runtime** - Contains COTS software.

SQLPLUS.DIST  
plus.install

**/home/oracle/sqlplus/lib** - Contains COTS software.

afidrv.o  
frms23.o  
frms30.o  
libplus.a  
libplus.aO  
sqlplus.mk

**/home/oracle/sqlplus/man** - Contains COTS software.

crscript.l  
demobld.l  
demodrop.l  
glogin.l  
login.l  
sqlplus.l

**/home/oracle/sqlplus/mesg** - Contains COTS software.

cpyd.msb  
cpyd.msg  
cpydk.msb  
cpydk.msg  
cpye.msb  
cpye.msg  
cpyf.msb  
cpyf.msg  
cpyi.msb  
cpyi.msg  
cpyn.msb  
cpyn.msg  
cpynl.msb  
cpynl.msg  
cpys.msb  
cpys.msg  
cpysf.msb  
cpysf.msg  
cpyus.msb  
cpyus.msg  
sp1d.msb  
sp1d.msg  
sp1dk.msb  
sp1dk.msg  
sp1e.msb  
sp1e.msg  
sp1f.msb  
sp1f.msg  
sp1i.msb  
sp1i.msg  
sp1n.msb  
sp1n.msg  
sp1nl.msb  
sp1nl.msg  
sp1s.msb  
sp1s.msg  
sp1sf.msb  
sp1sf.msg  
sp1us.msb

sp1us.msg  
sp2d.msb  
sp2d.msg  
sp2dk.msb  
sp2dk.msg  
sp2e.msb  
sp2e.msg  
sp2f.msb  
sp2f.msg  
sp2i.msb  
sp2i.msg  
sp2n.msb  
sp2n.msg  
sp2nl.msb  
sp2nl.msg  
sp2s.msb  
sp2s.msg  
sp2sf.msb  
sp2sf.msg  
sp2us.msb  
sp2us.msg

**/home/oracle/sqlreport** - Contains COTS software.

README

**/home/oracle/sqlreport/admin** - Contains COTS software.

sr.a  
sr.e  
sr.h  
srw.admin  
srw.chksrw  
srw.chkuid  
srw.creuid  
srw.syspwd  
srw\_1104.sql  
srw\_1110.sql  
srw\_cmdn.sql  
srw\_dcen.sql  
srw\_dloc.sql  
srw\_dr10.sql  
srw\_drop.sql  
srw\_grnt.sql  
srw\_icen.sql  
srw\_iloc.sql  
srw\_lmt.sql  
srw\_mail.sh  
srw\_mail.txt  
srw\_prac.sql  
srw\_rvke.sql



srw\_ucen.sql  
srw\_uloc.sql

**/home/oracle/sqlreport/admin/terminal** - Contains COTS software.

srw\_100  
srw\_100.kdf  
srw\_100.key  
srw\_100c.kdf  
srw\_100f  
srw\_100f.kdf  
srw\_100f.key  
srw\_220  
srw\_220.kdf  
srw\_220.key  
srw\_220c.kdf  
srw\_220e  
srw\_320  
srw\_340  
srw\_ansi  
srw\_ansi.kdf  
srw\_ansi.key  
srw\_at386  
srw\_at386.kdf  
srw\_at386.key  
srw\_att.kdf  
srw\_att610  
srw\_att630  
srw\_avx300  
srw\_avx300.kdf  
srw\_avx300.key  
srw\_d200n  
srw\_d216  
srw\_d216.kdf  
srw\_d216.key  
srw\_d216n  
srw\_d410n  
srw\_d412  
srw\_d412.kdf  
srw\_d412.key  
srw\_d462  
srw\_d462.kdf  
srw\_d462.key  
srw\_dflt  
srw\_dgn.kdf  
srw\_dgn.key  
srw\_hp  
srw\_hp.kdf  
srw\_hpt  
srw\_hpx

srw\_hpx.kdf  
srw\_n101  
srw\_n101.kdf  
srw\_sun  
srw\_sun.kdf  
srw\_sun.key  
srw\_sun5  
srw\_sun5.kdf  
srw\_tm220  
srw\_tm228  
srw\_tm228.kdf  
srw\_tm228.key  
srw\_tm228i  
srw\_tm228i.kdf  
srw\_tm228i.key  
srw\_tm229  
srw\_tm229i  
srw\_vtapo  
srw\_vtapo.kdf  
srw\_vtapo.key  
srw\_wyse50  
srw\_wyse50.kdf  
srw\_wyse50.key  
termdef.dat  
vt100  
vt220  
vt220e  
vt320  
vt340

**/home/oracle/sqlreport/admin/printer** - Contains COTS software.

dec  
dec180  
decland  
decwide  
dflt  
hpl  
hplwide  
printdef.dat  
pslan132  
pslan180  
pslan80  
pspor132  
pspor80  
pstscript.dat  
spoolcmd\*  
spoolp.sh  
spoolp2.sh  
spoolpr.sh\*

spoolpr2.sh  
wide  
wide180

**/home/oracle/sqlreport/demo** - Contains COTS software.

advanced.rex  
advanced.sql  
banners.itd  
demobld.sql  
demodrop.sql  
dist.itd  
example.rex  
profile.itd  
srw132.rex  
srw175.rex  
srw80.rex  
versrw.sh

**/home/oracle/sqlreport/doc** - Contains COTS software.

README.doc

**/home/oracle/sqlreport/install** - Contains COTS software.

SQLREPORT.DIST  
srw.install  
srw.key  
srw.verify  
srw\_ver.out

**/home/oracle/sqlreport/install/runtime** - Contains COTS software.

SQLREPORT.DIST  
srw.install

**/home/oracle/sqlreport/lib** - Contains COTS software.

README.  
aaaaf.o  
conmai.o  
expmai.o  
genmai.o  
iapxtb.c  
iapxtb.o  
impmai.o  
libally.a

libally.aO  
libgen.a  
libgen.aO  
libint.a  
libmov.a  
libstub.a  
libstub.aO  
prtmai.o  
runmai.o  
rwcst1.o  
rwcst2.o  
rwcstf.o  
rwcstm.o  
rwegfv.o  
rwegsc.o  
rweif.o  
rwenop.o  
rwepfo.o  
rwepfv.o  
rweprs.o  
rwerth.o  
rwexec.o  
rwxtb.o  
srw.mk  
srwcpf.o  
srwcpf.pc  
srwmai.o  
trmmai.o  
usrxit.h

**/home/oracle/sqlreport/mesg** - Contains COTS software.

srwus.msb  
srwus.msg

**/home/oracle/tcp/demo** - Contains COTS software.

checktcp.itd  
dist.itd  
vertcp.sh

**/home/oracle/tcp/doc** - Contains COTS software.

README.doc

**/home/oracle/tcp/install** - Contains COTS software.

TCP.DIST  
checkTCP  
prtstr

tcp.install  
tcp.key  
tcp.root  
tcp.verify  
tcp\_ver.out

**/home/oracle/tcp/install/runtime** - Contains COTS software.

TCP.DIST  
tcp.install

**/home/oracle/tcp/lib** - Contains COTS software.

libtcp.a

**/home/oracle/tcp/log** - Contains COTS software.

orasrv.log

**/home/oracle/tcp/man** - Contains COTS software.

orasrv.l  
tcpctl.l

**/home/oracle/tpo/install** - Contains COTS software.

TPO.DIST  
rowlock  
tpo.install  
tpo.key  
tpo.verify  
tpo\_ver.out

**/home/oracle/tpo/install/runtime** - Contains COTS software.

TPO.DIST  
tpo.install

**/home/oracle/tpo/lib** - Contains COTS software.

libtpo.a

**/db** - Contains GATEC specific software.

/db - Will contain directories which define the ORACLE GATEC database.

/db/log - Incremental log files which are created as the GATEC ORACLE database undergoes change. These log files are deleted after a successful backup tape copy of the database is made. If the database is lost, these files can be used by and ORACLE application to restore to bring the last back up of the database to the prior state of the database before it was lost. File names have form: arch\_<five\_digit\_number>.dbf (e.g. arch\_20020.dbf).

/db/dbs - "the database"

/db/tmp - temporary storage area used by ORACLE

/db/lost+found - standard UNIX directory lost and found.

**/etc** - Contains GATEC support software.

.authlist - Password authorization file used by gateway to log into remote systems. The initial file is created when gateway is installed as part of the /ecedi directory install. The file must be manually edited to add different machine logins. Consult the *ASCENT Gateway Programmer's Guide* for further details [REF009]. For security purposes this file can only be touched by root (i.e. the Superuser).

printcap - Establishes outbound queue in printcap file.

**/usr/local/bin** - Contains public domain software.

perl - The Perl language interpreter. The Perl language is described at length in the following references: *UNIX Power Tools* [REF010], and *Programming Perls* [REF011].

**/usr/spool/cron/crontabs** - - Contains GATEC specific software.

gatec2 - crontab to run /home/gatec2/bin/remoldfiles\_cron to delete old files from the /home/gatec2/tmp directory.

gatecmgr - crontab to run:

ack\_cron\_pl - Checks on overdue 850, 836, and 840 acknowledgments.

getopr\_bsp\_cron3 - Down load new solicitations from BCAS.

putuploads\_cron - Upload award information to BCAS.

upload\_bcas\_item\_desc\_cron - Upload item description change information to BCAS.

upload\_bcas\_cancel\_award\_cron - Upload award cancellation information to BCAS.

daily - Close RFQs in GATEC database which have been open for a specified duration.

**/usr/spool/lpd** - Contains GATEC support software.

outbound - Spooling area for outbound queue.

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## 7.2 Appendix B - Directory Structure of the Transport Machine

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The directory structure on the Transport Machine is similar to that of the Database Machine. The major exception being that the transport machine does not have the /home/oracle and /db directories. While many of the directory names are the same, the actual content of the directories may be different.

**/home** - Contains GATEC specific software

gatecmgr - The gatecmgr user directory.

gatec2 - The gatec2 user directory.

archive - The archive user directory.

**/home/gatec2** - Contains GATEC specific software.

/home/gatec2/bin - Will be a link to the sub directory which holds the current version's shell scripts and binary executables.

/home/gatec2/bin-gatec-<version\_id>\_<date> - A version of GATEC binaries and shell scripts. /home/gatec2/bin will be linked to a directory like this. An example of the version 2.4.1 directory name is: bin-gatec-241\_03DEC93. The files contained in this directory are described below:

824CDFtoDB - Executable to place 824 CDF into GATEC database.

838CDFtoDB -> 838cCDFtoDB - Will run 838cCDFtoDB executable when 838CDFtoDB is invoked.

838cCDFtoDB - Executable to insert 838C information into GATEC database.

843CDFtoDB - Executable to insert 843 (bid) CDF information into GATEC database.

864CDFtoDB - Executable to insert 864 (text message) CDF information into GATEC database.

997CDFtoDB - Executable to insert 997 (acknowledgment) CDF information into the GATEC database.

TE- Executable translator engine.

cdfretry - Bourne Shell script to perpetuate queuing of transaction until GATEC database is up.

inbound - Bourne shell script used to process incoming X12 transactions.

input - Bourne Shell script used to handle inbound printer queue overflows.

newsyslog - Bourne shell script run as cron to update archive mail file name and move it to /home/archive/archive.

outbound - Bourne shell script used to process outgoing transactions.

sh\_get\_login\_info - Bourne shell script used to get ORACLE login from file (login) in/home/gatec2/etc.

/home/gatec2/lib - Will be a link to the sub-directory which holds the shared libraries used by the GATEC application binaries.

/home/gatec2/lib-gatec-<version\_id>\_<date> - A version of GATEC libraries. /home/gatec2/lib will be linked to a directory like this. An example of the version 2.4.1 directory name is: lib-gatec-241\_03DEC93. The files contained in this directory are described below (note these are identical to the libraries on the Database Machine).

ibC.sa.3.0 - Global data library (not used).

libC.so.3.0 - Shareable C library for GATEC application.

libdui\_comm.sa.1.0 - Global data library for client and server (not used).

libdui\_comm.so.1.0 - Shareable DUI communications library for client and server.

libduit.sa.1.0 - Global data DUI toolkit library for client and server



(not used).

libduit.so.1.0- Shareable DUI toolkit library for client). and server.

libnarq.sa.1.0 - Global data NARQ library (not used).

libnarq.so.1.0 - Shareable NARQ (database interface) library for GATEC application.

libnarq\_util.sa.1.0 - Global data NARQ utilities library (not used).

libnarq\_util.so.1.0 - Shareable NARQ utilities library for GATEC application.

libnora.sa.1.0 - Global data NORA library (not used).

libnora.so.1.0 - Shareable NORA (NARQ support) library for GATEC application.

The "lib" directory will also have one sub-directory named gst.

/home/gatec2/lib-gatec-<version\_id>\_<date>/gst - Contains directories of translation definitions for creating X12 transactions as well as decoding them.

2.0alltocdf - Directory contains translation files used by the translator (TE) to create 864, 843, 997, or 824 CDFs.

1  
10  
106  
107  
108  
109  
11  
12  
13  
14  
15  
16  
19  
2  
20  
21  
22  
23  
3  
30  
33  
34

38  
39  
4  
40  
42  
43  
44  
45  
47  
48  
5  
50  
51  
52  
53  
55  
57  
58  
59  
6  
60  
61  
62  
63  
64  
66  
67  
68  
7  
70  
72  
75  
76  
77  
78  
79  
8  
83  
9

2.0cdfto824 - Contains translation files used by the translator (TE) to generate a X12 824 document from a 824 CDF.

1  
10  
106  
107  
108  
109  
11  
12

13  
14  
15  
16  
19  
2  
20  
21  
22  
23  
3  
30  
33  
34  
38  
39  
4  
40  
42  
43  
44  
45  
47  
48  
5  
50  
51  
52  
53  
55  
57  
58  
59  
6  
60  
61  
62  
63  
64  
66  
67  
68  
7  
70  
72  
75  
76  
77  
78  
79  
8

83  
9

2.0cdfto836 - Contains translation files used by the translator (TE)  
to generate a X12 836 transaction from a 836 CDF.

1  
10  
106  
107  
108  
109  
11  
12  
12345678901234  
13  
14  
15  
16  
19  
2  
20  
21  
22  
23  
3  
30  
33  
34  
38  
39  
4  
40  
42  
43  
44  
45  
47  
48  
5  
50  
51  
52  
53  
55  
57  
58  
59  
6  
60  
61

62  
63  
64  
66  
67  
68  
7  
70  
72  
75  
76  
77  
78  
79  
8  
83  
9

2.0cdfto840 - Contains translation files used by the translator (TE) to generate a X12 840 transaction from a 840 CDF.

1  
10  
106  
107  
108  
109  
11  
12  
13  
14  
15  
16  
19  
2  
20  
21  
22  
23  
3  
30  
33  
34  
38  
39  
4  
40  
42  
43  
44  
45

47  
48  
5  
50  
51  
52  
53  
55  
57  
58  
59  
6  
60  
61  
62  
63  
64  
66  
67  
68  
7  
70  
72  
75  
76  
77  
78  
79  
8  
83  
9

2.0cdfto850 - Contains translation files used by the translator (TE) to generate a X12 850 transaction from a 850 CDF.

1  
10  
106  
107  
108  
109  
11  
12  
12345678901234  
13  
14  
15  
16  
19  
1versionctrl  
2

20  
21  
22  
23  
2versionctrl  
3  
30  
33  
34  
38  
39  
3versionctrl  
4  
40  
42  
43  
44  
45  
47  
48  
5  
50  
51  
52  
53  
55  
57  
58  
59  
6  
60  
61  
62  
63  
64  
66  
67  
68  
7  
70  
72  
75  
76  
77  
78  
79  
8  
83  
9

2.0cdfto864 - Contains translation files used by the translator (TE)

to generate a X12 864 transaction from a 864 CDF.

1  
10  
106  
107  
108  
109  
11  
12  
13  
14  
15  
16  
19  
2  
20  
21  
22  
23  
3  
30  
33  
34  
38  
39  
4  
40  
42  
43  
44  
45  
47  
48  
5  
50  
51  
52  
53  
55  
57  
58  
59  
6  
60  
61  
62  
63  
64  
66  
67



68  
7  
70  
72  
75  
76  
77  
78  
79  
8  
83  
9

x12to824 - Contains translation files used by the translator (TE) to perform a context check on incoming X12 transactions. This translation insures that all parameters for the X12 DoD convention have been specified for the transactions. If not, an 824 is generated and sent back to the vendor through the hub.

1  
10  
106  
107  
108  
109  
11  
12  
12345678901234  
13  
14  
15  
16  
19  
1versionctrl  
2  
20  
21  
22  
23  
2versionctrl  
3  
30  
33  
34  
38  
39  
3versionctrl  
4  
40  
42  
43

44  
45  
47  
48  
4versionctrl  
5  
50  
51  
52  
53  
55  
57  
58  
59  
5versionctrl  
6  
60  
61  
62  
63  
64  
66  
67  
68  
6versionctrl  
7  
70  
72  
75  
76  
77  
78  
79  
7versionctrl  
8  
83  
8versionctrl

838toadd - Contains translation files used by TE to translate an 838C message.

1  
10  
106  
107  
109  
11  
12  
13  
14  
15

16  
19  
1versionctrl  
2  
20  
21  
22  
2versionctrl  
3  
30  
33  
34  
38  
3versionctrl  
4  
40  
42  
43  
44  
47  
48  
5  
50  
51  
52  
53  
55  
57  
58  
59  
6  
60  
61  
62  
63  
64  
66  
67  
68  
7  
70  
72  
79  
8  
83  
9

x12to997.3010 - Contains translation files used by the translator (TE) to perform a standard 997 check on incoming X12 transactions. This insures that all parameters which must be

specified to fulfill the X12 convention have been specified for the transaction.

100  
101  
102  
103  
13  
19  
20  
35  
47  
48  
49  
50  
52  
53  
62  
67  
70  
84  
86  
88  
89  
90  
91  
92  
93  
94  
95  
96  
97  
98  
99  
GST.control

/home/gatec2/tmp - Will contain the CDF and X12 files whose names will be in the following form:

cdfin<four/five\_digit\_number> (e.g. cdfin7215, cdfin12345)

Original CDF file as generated by GATEC application.

cdfout<four/five\_digit\_number> (e.g. cdfout7317, cdfout 34890)

CDF file after being processed by outbound application to remove all asterisk characters.

x12out<four/five\_digit\_number> (e.g. x12out8904, x12out93215)

Complete X12 message encapsulated in SMTP. Shell capable.

Periodically this directory is automatically cleaned to prevent it from over flowing

**/home/gatec2/etc** - Will contain two files:

**cdf\_regexp** - contains valid regular expressions (grammar of BCAS CDF parameters, e.g. a UTN number is 16 characters, the first being alphanumeric, the next five being digits, etc) which are used by the regular expression checker **cdf\_check**, to verify data being uploaded to BCAS is grammatically correct.

**dblogin** - contains the ORACLE database login information used by the **sh\_get\_login\_info** script as well as the "CDF to DB" software.

**/home/gatecmgr** - Contains GATEC specific software.

Contains home directory files for gatec manager.

**set\_ecedi\_env** - executes script that sets up environment for gatecmgr operations

**/home/archive** - Contains GATEC specific software.

**/home/archive/syslog** - Contains system time stamp logs for all sent/received messages. File names will be of the form:

Sysl.<three\_char\_month>x<date> (e.g. Sysl.Julx23)

**/home/archive/archive** - Contains mail log of all sent/received messages. File names will be of form:

arch.<year><month><date> (e.g. arch.931210 is the log file for December 10, 1993)

**/home/ecedi** - Contains GATEC support software.

The directory tree for **ecedi** will not be repeated here for the sake of brevity. It is identical to the one described for the Database Machine.

**/etc** - Contains GATEC support software.

**printcap** - Establishes outbound, inbound, inbound2, and inbound3 queues in **printcap** file.

**/usr/spool/cron/crontabs** - - Contains GATEC support software.

root - cron tab that runs /home/gatec2/bin/newsyslog to roll over archive.

**/usr/spool/lpd** - Contains GATEC support software.

inbound - Spooling area for inbound queue.

inbound2 - Spooling area for inbound2 queue.

inbound3 - Spooling area for inbound3 queue.

outbound - Spooling area for outbound queue.

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### 7.3 Appendix C - One SPARC-10 Directory Structure

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The contents of the two /home/gatec2/bin directories as well as the /home/gatec2/lib directories are combined. All other directories mentioned (as well as their contents) are placed on the one machine.



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